

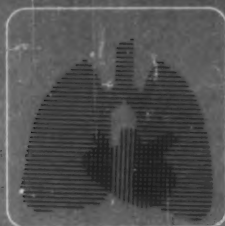
THE JOURNAL OF  
CIRCULATION, RESPIRATION  
AND RELATED SYSTEMS

# CHEST

VOLUME 61

JANUARY-JUNE, 1972

OFFICIAL PUBLICATION OF THE  
AMERICAN COLLEGE OF CHEST PHYSICIANS



# CHEST

**Alfred Soffer, M.D., Editor-in-Chief, Chicago**

## EDITORIAL BOARD

J. Arthur Myers, M.D., Editor Emeritus, Minneapolis  
Crawford W. Adams, M.D., Nashville  
Harry Bass, M.D., Boston  
Gerald L. Baum, M.D., Cleveland  
David P. Boyd, M.D., Boston  
Howard A. Buechner, M.D., New Orleans  
Richard A. Carleton, M.D., Chicago  
David W. Cugell, M.D., Chicago  
Leonard S. Dreifus, M.D., Philadelphia  
Maxwell Finland, M.D., Boston  
Frank D. Gray, M.D., Philadelphia  
David G. Greene, M.D., Buffalo  
Dwight E. Harken, M.D., Boston  
Donald C. Harrison, M.D., Stanford, California  
H. F. Helmholz, Jr., M.D., Rochester, Minnesota  
Dean T. Mason, M.D., Davis, California  
William F. Miller, M.D., Dallas  
Kenneth M. Moser, M.D., San Diego  
Peter V. Moulder, M.D., Philadelphia  
Theodore H. Noehren, M.D., Salt Lake City  
Thomas L. Petty, M.D., Denver  
Charles G. Roland, M.D., Rochester, Minnesota  
Joseph Ross, M.D., Charleston, South Carolina  
Irwin J. Schatz, M.D., Ann Arbor  
David Chas. Schechter, M.D., New York City  
Stanley S. Schor, Ph.D., Philadelphia  
Gordon L. Snider, M.D., Boston  
Edmund H. Sonnenblick, M.D., Boston  
Myron Stein, M.D., Pawtucket, Rhode Island  
Richard Varco, M.D., Minneapolis  
John H. K. Vogel, M.D., Santa Barbara  
Robert F. Ziegler, M.D., Hancock, Michigan

## CORRESPONDING ASSOCIATE EDITORS

Maricao M. Alimurung, M.D., Philippines  
Jose Ignacio Baldo, M.D., Venezuela  
Etienne Bernard, M.D., France  
Gunnar Blom, M.D., Sweden  
Ike Boersma, M.D., The Netherlands  
Anthony E. C. Dobell, M.D., Canada  
Dirk Ducre, M.D., The Netherlands  
Jeffrey Gaugh, M.D., Wales  
Joachim Hehn, M.D., Germany  
Henry W. Herzog, M.D., Switzerland  
Albino Hurtado, M.D., Peru  
H. W. Knipping, M.D., Germany  
Morris J. Levy, M.D., Israel  
Maurice Marchal, M.D., France  
Andre Mayer, M.D., France  
Pepeken S. Hadrallchian, M.D., Lebanon  
Jo Owa, M.D., Japan  
Hector Ortega-Puelmo, M.D., Chile  
Juda M. Pausner, M.D., Israel  
George E. Poulton, M.D., Greece  
Vittorio Puddu, M.D., Italy  
Shigeru Sakakibara, M.D., Japan  
Demetrio Sodi-Palares, M.D., Mexico  
F. G. Uglav, M.D., USSR  
A. A. Yishnevsky, M.D., USSR  
Raman Viswanathan, M.D., India  
Helge B. Wolff, M.D., Sweden  
Eudolf Zanker, M.D., Germany  
E. J. Zerant, M.D., Brazil

## EXECUTIVE OFFICE

112 East Chestnut Street, Chicago, Illinois 60611 U.S.A.  
312-763-4933

Copyright 1972, by the American College of Chest Physicians

Published Monthly

Second Class Postage Paid at Chicago, Illinois and at  
additional mailing offices.

Annual Subscriptions: \$21.00 (U.S., Canada and Mexico)  
\$25.00 other countries.

CHANGE OF ADDRESS: Clip address portion and mail with  
new address to American College of Chest Physicians,  
112 East Chestnut Street, Chicago, Illinois 60611.

## National Advertising Representative

Howard L. Hagemann  
Hagemann Associates  
100 Wilmet Road  
Deerfield, Illinois 60015

Sylvia J. Peterson, Executive Editor  
Anne-Lise Hoffman

Advertising Production Manager  
Margaret Martinecz, Circulation Manager

# CONTENTS

Number 1, January 1972

Respiration, Circulation and The Allied Health Professions		Comparison of Nonpulsatile and Pulsatile Extracorporeal Circulation on Renal Tissue Perfusion	
Alfred Soffer, Chicago	1	John C. German; George S. Chalmers; Junichi Hirai; Nrisingha D. Mukherjee; Akio Wakabayashi; and John E. Connolly, Irvine, California	65
The Significance of Axis Deviation		Stenosis of the Pulmonary Arteries: Evolution and Hemodynamic Effects	
M. Irene Ferrer, New York City	2	Barbara Guller, Lausanne, Switzerland	70
Studies in Myocardial Rupture with Cardiac Tamponade in Acute Myocardial Infarction.		Value of the Vectorcardiogram for Distinguishing Left Anterior Hemiblock from Inferior Infarction with Left Axis Deviation	
I. Clinical Features		Alberto Benchimol, Kenneth B. Desser and James Schumacher, Phoenix	74
G. Biorck; L. Mogensen; O. Nyquist; E. Orinius; and A. Sjogren, Stockholm, Sweden	4	Fatigue, Chest Pain, and Left Testicular Discomfort in a 28-Year-Old Man	
II. Electrocardiographic Changes		Om P. Sharma, Los Angeles	77
L. Mogensen; O. Nyquist; E. Orinius; and A. Sjogren, Stockholm, Sweden	6	Constrictive Pericarditis due to Infection with Nocardia Asteroides	
III. Attempts at Emergency Surgical Treatment		Carlos M. Chavez, William A. Causey and J. Harold Conn, Jackson, Mississippi	79
B. Lofstrom; L. Mogensen; O. Nyquist; E. Orinius; A. Sjogren and B. Werner, Stockholm, Sweden	10	Traumatic Rupture of the Bronchus	
Endogenous Regulation of the Pulmonary Response to Isoproterenol		R. B. Lynn and K. Iyengar, Kingston, Ontario, Canada	81
Harry Bass, Boston	14	Arterial Punctures by Inhalation Therapy	
Percutaneous Trephine Biopsy of the Lung		Personnel	
Thomas A. Neff, Denver	18	Larry A. Lindesmith; Edward R. Winga; David E. Goodnough; and Richard A. Paradise, LaCrosse, Wisconsin	83
Closed Mitral Commissurotomy; Complications and their Effect on Survival		Goodpasture's Syndrome	
Thomas A. Keith, III and Noble O. Fowler, Cincinnati	24	Bijan Nik-Akhtar; Akbar Handjani; Naser Kamalian; and Hasan Tabatabai, Tehran, Iran	85
Pleural Effusion in Two Children with Histiocytosis X		Distinctive Ultrastructural Findings in a Case of Idiopathic Interstitial Pneumonia	
Arnold H. Matlin, Lionel W. Young and Martin R. Klemperer, Rochester, New York	33	Paul A. Shurin and A. Jay Block, Baltimore	86
An Unusual Case of Second-Degree A-V Block; A Study using His Bundle Electrograms		Left Ventricular Pseudoaneurysm	
William J. Mandel; Alan Kermaier; Howard N. Allen; and H. Hayakawa, Los Angeles	37	Manoucher Fallah-nejad, Denis M. Abelson and William S. Blakemore, Philadelphia	90
Pulmonary Function in Progressive Muscular Dystrophy		Left Aortic Arch and Right Superior Vena Cava in Mirror-Image Dextrocardia with Tetralogy	
E. J. Hapke, J. C. Meek and J. Jacobs, Sully, Wales	41	Jacob R. Morgan, Alan D. Forker and Max J. Trummer, San Diego	92
Solitary Primary Chemodectomas of the Lung		Malignant Granular Cell Myoblastoma of the Posterior Mediastinum	
Max L. Goodman and Eugene G. Laforet, Boston	48	William V. Harrer and Arthur S. Patchefsky, Philadelphia	95
Pulmonary Dirofilariasis		Consultants for the Journal, 1971	97
A. R. Navarrete, Houston	51	Pictorial Highlights, 37th Annual Meeting	A-17 thru A-23
Situs Inversus Totalis and Kartagener's Syndrome in a Japanese Population			
Kimiko Katsuhara; Sadahisa Kawamoto; Toshiro Wakabayashi; and Joseph L. Belsky, Hiroshima, Japan	56		
Some Physiologic Observations in Smoke Inhalation			
Jose Landa, Wilbur G. Avery and Marvin A. Sackner, Miami Beach	62		

## Number 2, February 1972

- Site and Type of Second Degree A-V Block  
Kenneth M. Rosen, Rolf M. Gunnar and  
Shahbudin H. Rahimtoola, Chicago ..... 99
- ACCP Overseas  
Alfred Soffer, Chicago .....100
- Changing Role of Surgery in the Treatment of  
Pulmonary Tuberculosis in Children  
James M. Feltis, Jr. and Donald Campbell,  
San Antonio .....101
- Rupture of Heart Complicating Myocardial  
Infarction; Analysis of 40 Cases including Nine  
Examples of Left Ventricular False Aneurysm  
Robert A. Van Tassel and  
Jesse E. Edwards, St. Paul .....104
- Endotracheal Gentamicin in Bronchial  
Infections in Patients with Tracheostomy  
Jean Klastersky; Christiane Geuning;  
Emile Mouawad; and Didier Daneau,  
Brussels, Belgium .....117
- Cardiovascular Effects of Carotid Sinus  
Nerve Stimulation in Resting Man  
Cyrus Farrehi, Portland, Oregon .....121
- Cardiac Arrhythmias, Increased Intracranial  
Pressure, and the Autonomic Nervous System  
McKamy Smith and C. Thorpe Ray,  
New Orleans .....125
- Atrial Pacing in the Determination of Myocardial  
Function in Patients with Mitral Stenosis  
Joseph W. Linhart, Philadelphia .....134
- Longterm Follow-up Study of Patients with  
Bronchial Anastomosis or Tracheal Replacement  
Wilson Weisel, Raymond R. Watson and  
Thomas M. O'Connor, Milwaukee .....141
- Adenocystic Carcinoma and Mucoepidermoid  
Carcinoma of the Tracheobronchial Tree  
Alfred Heilbrunn and Ivan K. Crosby,  
Kansas City, Kansas .....145
- President Nixon Greets Medical Editors .....150
- ACCP Overseas — Pictorial Highlights .....151
- Pulmonary Changes in Cardiopulmonary Bypass:  
Short-term Effects on Granular Pneumocytes  
Richard E. Sobonya; Jerome Kleinerman;  
Frank Primiano; and Edward H. Chester,  
Cleveland .....154
- The Effects of Right Heart Bypass on Acute  
Ventricular Failure with and without  
Ventricular Fibrillation  
Hans H. J. Zwart, Alex C. Kralios and  
Willem J. Kolff, Salt Lake City .....159
- Power Sources for Implantable Cardiac  
Pacemakers  
Victor Parsonnet, Newark .....165
- Detergent Worker Lung — A Hypersensitive  
Pulmonary Disease?  
James R. Webster, Jr.; David W. Cugell;  
Lawrence Cunningham; and Bernard Booth,  
Chicago .....174
- Simultaneous Sinoatrial and Atrioventricular  
Wenckebach Phenomena  
A. Wade Strickland and Nancy C. Flowers,  
Augusta, Georgia .....178
- Widening of the Superior Mediastinum to  
the Right  
Luis O. Martinez, Miami Beach .....181
- Concordant Right and Left Heart Pressure  
and Flow Velocity Alternans  
Alberto Benchimol, James Schumacher and  
Kenneth B. Desser, Phoenix .....183
- Complete Heart Block Complicating  
Cardiac Catheterization  
Prem K. Gupta and Jacob I. Haft, Bronx ..185
- Idiopathic Alveolar Hypoventilation Related  
to Head Trauma  
Wilbert S. Aronow and Edward A.  
Stemmer, Long Beach, California .....187
- Traumatic Subarachnoid-Pleural Fistula  
Charles B. Higgins and Donald G. Mulder,  
Los Angeles .....189
- Abnormal Deposition of Radiostrontium in Lungs  
Tapan K. Chaudhuri; Tuhin K. Chaudhuri;  
Mark I. Mullenburg; and James H. Christie,  
Iowa City .....190
- Successful Total Correction of Common Ventricle  
Shigeru Sakakibara; Seiichi Tominaga;  
Yasuharu Imai; Kichisaburo Uehara; and  
Masatomo Matsumuro, Tokyo, Japan .....192
- Constrictive Pericarditis Associated with  
Echinococcus Cyst  
Lewis W. Pinch and Ali Sehat,  
Mashad, Iran .....194
- Diaphragmatic Origin of the Pacemaker Sound  
John J. Gaidula and S. Serge Barold,  
Rochester, New York .....195
- Atypical Transitional Epithelial Cells in a  
Pulmonary Embolus  
Steven N. Becker, In Sook Seo and  
John Cornog, Indianapolis .....198
- A Cell-wall Deficient Form of the Pneumococcus  
in a Case of Pneumonia  
Antonina M. Brem and William Reidt,  
Detroit .....200
- College News .....12, 16, 21, 22, 23, 24, 25, 33, 36



## Number 2, February 1972 Supplement

Introduction to the Conference	
Giles F. Filley .....	1S
Introduction: Terminology of Acid-base Disorders	
Robert W. Winters .....	3S
In Vivo CO <sub>2</sub> Equilibration Curve	
Ralph B. Dell .....	3S
A Gibbsian View of Acid-base Balance	
Robert P. Davis .....	6S
Use of Extracellular Base Excess in Diagnosis of Acid-base Disorders; A Conceptual Approach	
Clarence R. Collier, Jack D. Hackney, and John G. Mohler .....	6S
Introduction	
James Metcalfe .....	12S
Oxygen Transport in Man	
C. A. Finch .....	12S
Blood Flow Regulation as a Factor in Regulation of Tissue O <sub>2</sub> Delivery	
N. Sheldon Skinner, Jr. ....	13S
Effect of Hemoglobin Little Rock on the Physiology of Oxygen Delivery	
P. A. Bromberg, F. Padilla, J. T. Guy and S. P. Balcerzak .....	14S
Comparative Aspects of Oxygen Transport in Animals with Hemoglobin of High (Llama) and Low (Sheep) Affinity for Oxygen	
Natalio Banchero and Robert F. Grover ..	15S
Role of 2,3-Diphosphoglycerate in Oxygen Transport in Experimental Anemia	
Gerd J. A. Cropp and Marlys H. Gee ....	16S
Influence of Oxygen, pH, and 2,3-Diphosphoglycerate on Carbon Dioxide Exchange	
Robert A. Klocke .....	20S
Some Aspects of O <sub>2</sub> and CO <sub>2</sub> Transfer in the Placenta	
Gordon G. Power .....	22S
Normal Levels of 2,3-Diphosphoglycerate in Red Cells Despite Severe Hypoxemia of Chronic Lung Disease	
Miles J. Edwards and Belle Canon .....	25S
Measurement of Oxygen Affinity of Hemoglobin in Hypoxemia and in Relation to Acid-base Status	
Harold A. Lyons and Delia Tabak .....	26S
Introduction	
Peter J. Cohen .....	29S
Effects of General Anesthesia on the Ratio of Cerebral Blood Flow to Cerebral Oxygen Utilization	
Harry Wollman .....	30S
Steady State Differences in Pco <sub>2</sub> [HCO <sub>3</sub> <sup>-</sup> ] and [H <sup>+</sup> ] between Blood and Extravascular Tissue Results for Lung, CSF and Brain	
G. H. Gurtner, B. Burns, and D. G. Davies ..	31S
Effect of Superimposed Metabolic Alkalosis on CO <sub>2</sub> Acclimatization in Cats	
Sung Suh Park .....	39S
Higher Nervous Influences on the Chemical Control of Breathing	
S. M. Tenney .....	41S
Proprioceptive Reflexes Controlling Inspiratory Motor Activity	
John E. Remmers .....	42S
The Role of the Intrinsic Properties of the Respiratory Muscles in the Regulation of Ventilation	
J. Milic-Emili .....	42S
The Effects of Intermittent Carotid Sinus Nerve and Carotid Body Stimulation on Respiratory Output	
Frederic L. Eldridge .....	44S
Ventilatory Control in Normal Man: Effects of Acute Exercise, Chronic Physical Conditioning and Chronic Hypoxia	
J. V. Weil; E. Byrne-Quinn; I. E. Sodal; J. S. Kline; R. E. McCullough; R. F. Grover; and G. F. Filley .....	45S
Breath-by-Breath Analysis of Pulmonary Gas Exchange and the Hyperpnea of Exercise under Nonsteady-state and Steady-state Conditions	
Karlman Wasserman and Brian J. Whipp, Ph.D. ....	46S
Regulation of Ventilation in the Absence of Pulmonary Gas Exchange	
Frank P. Primiano, Jr., Ph.D.; Robert M. Schmidt; Edward H. Chester; and David C. Fleming, Ph.D. ....	47S
Factors Controlling O <sub>2</sub> Uptake	
M. S. Karetzky and S. M. Cain .....	48S
The Effects of Impairment of O <sub>2</sub> Delivery on the Aerobic Metabolism of Brain and Skeletal Muscle	
N. H. Edelman; P. G. Tuteur; P. E. Epstein; N. S. Cherniack; and A. P. Fishman ....	49S
Relative Significance of Specific Pulmonary Adaptations to Altitude Acclimatization	
J. A. Dempsey, Ph.D.; W. G. Reddan, Ph.D.; M. L. Birnbaum; H. V. Foster, Ph.D.; J. Thoden, Ph.D.; R. Grover; and J. Rankin. ....	51S
Oxidative Energy Transfer during the Nonsteady-state Phase of Muscular Work	
Brian J. Whipp, Ph.D. and Karlman Wasserman .....	53S
Subcellular and Molecular Aspects of Intracellular pH	
William J. Waddell .....	56S
Intraerythrocytic Regulatory Mechanisms for Control of Glycolysis, DPT Levels and pH	
George J. Brewer, Fred J. Oelshlegel, Jr. and Eric B. Schoemaker .....	60S
Ventilatory Failure due to Metabolic Alkalosis	
Thomas M. Jarbo, Robert W. Penman, and Robert G. Luke .....	61S
Radiopaque Fluorocarbon — A New Agent for Studying Pulmonary Structure and Function	
David M. Long; Mai Liu, Ph.D.; Paul S. Szanto; and Paul Alrenga .....	64S
The Effects of Oxygen Toxicity on the Inactivation of Bacteria by the Lung	
Gary L. Huber; Sara L. Porter; Stephanie W. Burley; F. Marc LaForce; and Robert J. Mason .....	66S
Summary	
Eugene D. Robin .....	67S
Discussants: E. B. Brown; A. Guz; J. W. Severinghaus	

## Number 3, March 1972

Pacemaker Surveillance Victor Parsonnet, Newark .....	203	A New Concept to Restore the Failing Enlarged Ischemic Heart; Preliminary Report Arthur Vineberg and M. M. Lwin, Montreal, Canada .....	267
Cardiopulmonary Frontiers: Quality Health Care via Interactive Television Kenneth T. Bird, Boston .....	204	Interruption of the Aortic Arch: Clinical Features in 20 Patients Ayten Immagoulou, Ray C. Anderson and James H. Moller, Minneapolis .....	276
Ventilatory Responses to Inspired CO <sub>2</sub> in Patients with Cystic Fibrosis Nyunt Lwin and Samuel T. Giammona, San Francisco .....	206	Student Discoveries in the Pulmonary and Cardiovascular Systems William C. Gibson, Vancouver, Canada ..	283
The Concept of Classic Interstitial Pneumonitis-Fibrosis (CIP-F) as a Clinicopathologic Syndrome Richard A. DeRemee, Edgar G. Harrison, Jr., and Howard A. Andersen, Rochester, Minnesota .....	213	A Technique for Bedside Bronchofiberscopy Adam Wanner, Benjamin Amikam and Marvin A. Sackner, Miami Beach .....	287
The Vectorcardiogram in Left Posterior Hemiblock Associated with Inferior Wall Myocardial Infarction Agustin Castellanos, Jr.; Eduardo Chapunoff; Cesar A. Castillo; Azucena G. Arcebal; and Louis Lemberg, Miami ....	221	Fluctuating Peripheral Pulmonary Infiltrates Joseph N. Aceto, Wheeling, West Virginia ..	289
Comparison of a Pressure and a Volume Cycled Respirator in Chronic Obstructive Lung Disease James H. Cullen, John T. Kaemmerlen and Jayanta K. Chowdhury, Albany ....	228	Tricuspid Stenosis: Graphic Features Which Help in Its Diagnosis Charles P. Lisa and Morton E. Tavel, Indianapolis .....	291
Thromboembolism following Coronary Arteriography John A. Giddings; Jackie R. See; Richard D. Lewis; and Richard S. Cosby, Pasadena .....	235	Traumatic Bifascicular Intraventricular Block E. G. Gozo, Jr., H. C. Cohen and A. Pick, Chicago .....	294
Influence of Postanesthetic Suggestion on Prevention of Postoperative Pulmonary Complications Kathleen H. Berecek and Susan L. Janson, Ann Arbor .....	240	Pleural Effusion Secondary to Pulmonary Cryptococcosis Ralph Epstein, Robert Cole and Keith K. Hunt, Jr., Tacoma .....	296
Aortocoronary Bypass Graft for Preinfarction Angina Hooshang Bolooki; Abelardo Vargas; Ali Ghahramani; Leonard S. Sommer; Thomas Orvald; and James R. Jude, Miami .....	247	Rheumatic Pneumonitis William A. Grunow and John R. Esterly, Chicago .....	298
Pulmonary Sequestration Charles Marks, Stephen N. Wiener and Melvin Reyndman, Cleveland .....	253	Heart Block Complicating Acute Bacterial Endocarditis Jack J. Kleid; Eun Sook Kim; Barry Brand; Sandra Eckles; and Garet M. Gordon, Bronx .....	301
Prosthetic Valve Leakage following Cardiac Valve Replacements H. M. Singh, L. G. Davies and T. H. L. Rosser, Sully, Wales .....	258	A New Reliable Instrument for Pleural Biopsy Rafael J. Ballesterio, Lantana, Florida ....	303
Direct-writing Recorder of the Flow-Volume Curve and Its Clinical Application T. Takishima; T. Sasaki; K. Takahashi; H. Sasaki, and T. Nakamura, Sendai, Japan .....	262	Coronary Artery Bypass for Acute Iatrogenic Ostial Injuries A. B. Iben, R. Firpo and E. J. Hurley, Davis, California .....	304
		Disability of Coal Mine Workers Sami Solu, Cleveland .....	306
		Serum Alpha <sub>1</sub> -Antitrypsin Deficiency Iqbal A. Samad and Cornelius J. O'Connell, Buffalo .....	307
		Calcification of the Annulus of the Tricuspid Valve Lawrence I. Bonchek, Portland Oregon Response Ali R. Ghahramani, Miami .....	317
		The Bookshelf .....	26
		College News .....	13, 17, 20, 24

## Number 4, April 1972

PEEP	
Thomas L. Petty, Denver	309
Dysrhythmias Related to Cardiac Trauma	
Leonard S. Dreifus, Philadelphia	310
Preinfarction Angina: Clinical, Hemodynamic and Angiographic Evaluation	
Joseph W. Linhart, Barry M. Beller and Robert C. Talley, San Antonio	312
Acute Dissecting Ascending Aortic Aneurysm Resulting from Coronary Arteriography: Successful Surgical Treatment	
Denton A. Cooley, Don C. Wukasz and Grady L. Hallman, Houston	317
Cutaneous Sarcoidosis: Clinical Features and Management	
Om P. Sharma, Los Angeles	320
Diagnosis of Hodgkin's Disease by Bronchial Brush Biopsy	
Daina Variakojis, John J. Fennessy and Henry Rappaport, Chicago	326
Atrial Arrhythmias Related to Trauma to Sinoatrial Node	
Saroja Bharati; Abraham Chervony; John Gruhn; Kenneth M. Rosen; and Maurice Lev, Chicago	331
Influence of Atrial Mass on Amplitude and Duration of the P Wave	
D. V. Cokkinos; R. D. Leachman; Oscar Zamalloa; Reinaldo Cabrera, Houston; and M. Irene Ferrer, New York City	336
Relationship between Tumor Doubling Time and Anatomoclinical Features in 50 Measurable Pulmonary Cancers	
Philippe Chahinian, Paris, France	340
Late Systolic Murmur in Coronary Artery Disease	
Tsung O. Cheng, Washington, D.C.	346
Pure Collagen Plaques on the Diaphragm and Pleura	
William C. Roberts and Victor Ferrans, Bethesda	357
Focalized Pulmonary Histoplasmosis (Coin Lesion); Report of 58 Cases	
Maganlal K. Sutaria, John W. Polk and Prathapchandra Reddy, Mt. Vernon, Missouri	361
Coronary Flow Supplementation in Experimental Myocardial Infarction with Shock	
Alexander C. Kralios; Hans H. J. Zwart; Yenching Wu; Spyridon S. Mouloupoulos; and Willem J. Kolff, Salt Lake City	365
An Inexpensive Continuous Positive End-expiratory Pressure (PEEP) Adaptor for Positive Pressure Respirators	
Roscoe Woods; Robert M. Rogers; Harvey J. Sugerman; and Kermit R. Tatum, Philadelphia	376
Right Lower Lobe Abscess in a Nigerian	
Stanley P. Bohrer, Ibadan, Nigeria	379
Phasic Renal Artery Flow Velocity during Ventricular Tachycardia in Man: A Possible Mechanism of Renal Shutdown	
Alberto Benchimol, James Schumacher and Kenneth B. Desser, Phoenix	381
The Phonocardiographic Picture of Aortic Insufficiency	
B. Argano and A. A. Luisada, Chicago	384
Cycle Length-Dependent Left and Right Bundle Branch Block and Left Anterior Hemiblock	
Dan Feigl and Abraham Marmor, Beer Jaakov, Israel	388
Deep Entomophthorid Phycomycotic Infection Reported for the First Time in the United States	
Herbert L. Eckert; George H. Khoury; R. Scott Pore; Enid F. Gilbert; and James R. Gaskell, Morgantown, West Virginia	392
Primary Pulmonary Aspergillosis with High Fibrinolytic Activity in the Aortic Intima	
M. E. Pelczar, Pia Glas-Greenwalt and T. Astrup, Washington, D.C.	394
Persistent Left Superior Vena Cava Complicating Pacemaker Catheter Insertion	
Leonda Garcia; Richard S. Levine; Warren Kossowsky; and Alan F. Lyon, Brooklyn	396
Glomerulonephritis following Streptococcal Pneumonia	
David A. Levinson and Kenneth D. Litwack, San Francisco	397
Pulmonary Function following Traumatic Rupture of the Bronchus	
P. Lynne Davies, P. C. Ganguli and L. P. Sterns, Edmonton, Canada	400
Intermittent Heart Block Related to Treatment of Hypertension in a Patient with Acute Myocardial Infarction	
Kenneth Gershengorn and Jacob I. Haft, New York City	402
Utilization of General Hospitals in the Treatment of Tuberculosis	
Committee on Tuberculosis, American College of Chest Physicians	405
Lung Changes in Ankylosing Spondylitis	
A. K. Sil, Waltham Abbey, England	406
Membranous Subvalvular Aortic Stenosis in Tuberos Sclerosis	
Ajit V. Adyanthaya; Everett C. Price; George V. Miller and Garland D. Anderson, Houston	407
Pacer Premature Beats — A Manifestation of Malfunction	
Richard A. Berger, Melvin Ross and David A. Nathan, Miami Beach	408
The Bookshelf	30, 32, 33
College News	21, 24



## Number 5, May 1972

- The Manufacturer and the Physician: The Brave New World of Intracardiac Pacing  
Agustin Castellanos, Jr. and Lavonne Hendrix, R.N., Miami .....409
- The Cardiac Pacemaker and the Manufacturer's Responsibility  
Seymour Furman, Bronx .....411
- The Cardiac Pacemaker, the Manufacturer and the Surgeon  
Arthur C. Beall, Jr., Houston and W. Gerald Rainer, Denver .....413
- Editorial Expression — A New Department  
Alfred Soffer, Chicago .....414
- Ventricular Parasystole with Reentry in the AV Node  
Kenneth S. Gimbel, Boston. *Editorial Expression* — Borys Surawicz, Lexington, Kentucky .....415
- Effects of Glucagon on a Multistressed Circulation  
Gaeton T. Nola; Richard E. Kerber; Pamela E. Stacks; and Donald C. Harrison, Stanford. *Editorial Expression* — Frank I. Marcus, Phoenix .....420
- Apparent Malfunction of Demand Pacemaker Caused by Nonpropagated (Concealed) Ventricular Extrasystoles  
R. A. Massumi; D. T. Mason; E. A. Amsterdam; and A. F. Salel, Davis, California. *Editorial Expression* — Richard Langendorf, Chicago .....426
- Double Blind Crossover Study of Cromolyn Sodium Inhibition of Aerosol Antigen Challenge  
Michael H. Grieco, New York City. *Editorial Expression* — Raymond G. Slavin, St. Louis .....432
- Effects of Position on the Resting and Postexercise Phonocardiogram  
Wilbert S. Aronow, John Cassidy and Ronald R. Uyeyama, Long Beach. *Editorial Expression* — Antonio C. deLeon Jr., Washington, D.C. ....439
- Leftward Shift of Frontal Plane QRS Axis as a Frequent Manifestation of Acute Pulmonary Embolism  
Robert E. Lynch, Paul D. Stein and Thomas A. Bruce, Oklahoma City .....433
- Undiagnosed Tuberculosis in a General Hospital  
Jean K. Ashba and John M. Boyce, Providence .....447
- Pulmonary Manifestations of the Yellow Nail Syndrome  
Erhard Hiller, Edward C. Rosenow, III and Arthur M. Olsen, Rochester, Minnesota ...452
- Correlation of the Ventilation and Perfusion Aspects of Chronic Obstructive Pulmonary Disease: A Review of 100 Cases  
Merton A. Quaife and Irving Kass, Omaha .459
- Tracheobronchopathia Osteoplastica: End Stage of Primary Lung Amyloidosis?  
Gideon C. Alroy, Chaim Lichtig and Joseph K. Kaftori, Haifa, Israel .....465
- The Rib Spreader: A Chapter in the History of Thoracic Surgery  
E. A. Bonfils-Roberts, New York City ....469
- 1971 Reflection of 1970 Statistics  
Report of the Subcommittee on Surgery for Coronary Disease, ACCP .....475
- Commentary on "1971 Reflections of 1970 Statistics"  
Irwin J. Schatz, Ann Arbor .....477
- Emergency Myocardial Revascularization for Impending Myocardial Infarctions  
Cary J. Lambert; Ben F. Mitchel; Maurice Adam; and Gerald F. Geisler, Dallas .....479
- Life Table Analysis of the Results of Coronary Surgery  
William H. Sewell, Sayre, Pennsylvania ..481
- Coronary Artery Surgery in Patients with Impaired Left Ventricular Function  
Harry Siderys, John N. Pittman and Gilbert Herod, Indianapolis .....482
- Commentary on "Use of Hydrocortisone in the Treatment of Acute Myocardial Infarction"  
Alfred Soffer, Chicago .....483
- Editorial Comment on "The Use of Hydrocortisone in the Treatment of Acute Myocardial Infarction"  
John A. Callahan and Lila R. Elveback, Ph.D., Rochester, Minnesota ...484
- The Responsibilities of a Statistical Reviewer  
Stanley Schor, Ph.D., Philadelphia .....486
- Use of Hydrocortisone in the Treatment of Acute Myocardial Infarction  
D. Barzilai; J. Plavnick; A. Hazani; R. Einath; N. Kleinhaus; and J. Kanter, Haifa, Israel .488
- Unusual Configuration of Pulmonary Vascular Pattern  
Richard H. Burk; Howard A. Buechner; Robert L. Dillenkoffer; and Morton Brown, New Orleans .....492
- The Sinus Node in Chronic Granulocytic Leukemia  
A. G. Suryaprasad, Ellis J. Van Slyck, Detroit, and Thomas N. James, Birmingham .....494
- Hypocalcemia, Hypomagnesemia and Hypokalemia during Chemotherapy of Pulmonary Tuberculosis  
Boon Vanasin, Marc Colmer and Paul J. Davis, Baltimore .....496
- Alternate Patterns of Premature Ventricular Excitation during Spontaneous Atrial Bigeminy  
Stafford I. Cohen, Boston .....499
- Intrafissural Mid-zonal Anthracotic Lymph Node Presenting as a Coin Lesion  
Philip M. Rogers, Stephen M. Ayres and Charles A. Ribaud, New York City .....501



## Number 5, May 1972

Septic Pulmonary Emboli Arising from a Permanent Transvenous Cardiac Pacemaker Effrain Waisser, Chien-Suu Kuo and Sherwin A. Kabins, Chicago .....	503	Combined Aortic and Pulmonic Valvular Stenosis with an Ostium Primum Atrial Septal Defect Jacob R. Morgan, San Diego .....	510
Upper Airway Obstruction: A Rare Presentation of Chronic Lymphocytic Leukemia Frederick N. Firestone and Morton J. Robinson, Miami Beach .....	505	Acute Pernicious Beriberi Heart Disease James F. King, Richard Easton and Marvin Dunn, Kansas City, Kansas .....	512
Congenital Diffuse Bronchio-alveoliectasis: A Variant of Congenital Cystic Disease of the Lungs Fernando T. Enrile, Luis M. Jourdain and Ambrish Mathur, Brooklyn .....	507	Heterotopic Bone Marrow (Myelolipoma) of the Mediastinum Daniel Krag and Stanley B. Reich, Los Gatos, California .....	514
		Crisis in Pulmonary Intensive Care Maurice S. Segal, Boston .....	516

## Number 6, June 1972 Special Issue

Tuberculosis in This Decade Alfred Soffer, Chicago .....	517	L. Verbist; S. Mbete; H. Van Landuyt; Th. Darras; and A. Gyselen, Pellenberg, Belgium .....	555
The Rifamycins, A Unique Series of Antimicrobials Gladys L. Hobby, Ph.D., East Orange .....	517	Rifampin in Initial Treatment of Advanced Pulmonary Tuberculosis Raymond F. Corpe and Elio S. Sanchez, Rome, Georgia .....	564
Rifampin: Its Role in the Treatment of Tuberculosis Vernon N. Houk, Atlanta .....	518	Panel Discussion Moderator: Howard S. Van Ordstrand, Cleveland Panelists: Gunnar Boman, Stockholm; Raymond F. Corpe, Rome, Georgia; Charles Coury, Paris; Gladys L. Hobby, Ph.D., East Orange; Vernon N. Houk, Atlanta; David B. Radner, Chicago; James Raleigh, Houston; Ludo Verbist, Pellenberg, Belgium .....	568
Changing Concepts in Treatment of Tuberculosis D. B. Radner, Chicago .....	520	The Antituberculosis Efficacy of Rifampin in 136 Patients Paul T. Davidson, Marian Goble and William Lester, Denver .....	574
The Place of Rifampin Robert G. Loudon, Cincinnati .....	524	Rifampin plus Isoniazid in Initial Therapy of Pulmonary Tuberculosis and Rifampin and Ethambutol in Retreatment Cases A. W. Lees; G. W. Allan; J. Smith; W. F. Tyrrell; and R. J. Fallon, Glasgow, Scotland .....	579
Metabolic Study and Controlled Clinical Trials of Rifampin Shigeichi Sunahara and Hideo Nakagawa, Tokyo, Japan .....	526	Rifampin-Isoniazid Compared with Streptomycin-Isoniazid in the Original Treatment of Infectious Pulmonary Tuberculosis; Results of a Controlled Study Gerard Favez, Rene Chiolerio and Claude Willa, Lausanne, Switzerland .....	583
Rifampin-Isoniazid Compared with PAS-Isoniazid-Streptomycin in Initial Treatment of Pulmonary Tuberculosis; A Controlled Cooperative Trial Gunnar Boman, Stockholm, Sweden .....	533	Hepatotoxicity in Rifampin-Isoniazid Treated Patients Related to Their Rate of Isoniazid Inactivation J. Smith; W. F. Tyrrell; A. Gow; G. W. Allan and A. W. Lees, Glasgow, Scotland .....	587
A Study of 200 Cases of Active, Recent Pulmonary Tuberculosis Treated with Rifampin-Isoniazid; A Follow-up History of One and One-half to Three Years P. Constans; A. Baron; R. Parrot; and Ch. Coury, Paris, France .....	539	Antituberculosis Activity of Rifampin; Report of Studies Performed and in Progress (1963-1971) Vito Nitti, Naples, Italy .....	589
Panel Discussion Moderator: William W. Stead, Milwaukee Panelists: Gunnar Boman, Stockholm; Charles Coury, Paris; Vernon N. Houk, Atlanta; David B. Radner, Chicago; James Raleigh, Houston; Shigeichi Sunahara, Tokyo; Ludo Verbist, Pellenberg, Belgium .....	545		
Summation of Experimental Studies on the Action of Rifampin Gladys L. Hobby, Ph.D., East Orange .....	550		
Intermittent Therapy with Rifampin Once a Week in Advanced Pulmonary Tuberculosis			

## Number 7, June 1972

- How Benign is Lidocaine?  
Robert Zelis, Davis, California .....599
- Sudden Death and Pre-hospital Phase of  
Acute Myocardial Infarction  
Sidney Goldstein and Arthur J. Moss,  
Rochester, New York .....600
- Central Airway Resistance in Excised  
Emphysematous Lungs  
G. Wayne Silvers; John C. Maisel;  
Thomas L. Petty; Roger S. Mitchell; and  
Giles F. Filley, Denver .....603
- Late Thrombotic Obstruction of Starr-Edwards  
Tricuspid Valve Prosthesis  
Robert J. Bache; Arthur H. L. From;  
Aldo R. Castaneda; Charles R. Jorgensen;  
and Yang Wang, Minneapolis .....613
- Delays in Reaching the Cardiac Care Unit:  
An Analysis  
Soen L. Tjoe and Myron H. Luria,  
Cleveland .....617
- Bronchiolar Carcinoma (Alveolar Cell),  
Another Great Imitator; A Review of 41 Cases  
Louis G. Ludington; Joseph J. Verska;  
Thora Howard; George Kypridakis; and  
Lyman A. Brewer, III, Los Angeles .....622
- Ethambutol in Tuberculous Meningitis  
I. D. Bobrowitz, Bronx .....629
- Intermittent Regional Delay of Left Ventricular  
Activation: The Influence of Such a Delay on the  
Standard Electrocardiogram; Report of 33 Cases  
Alexander Neuman, Haifa, Israel .....633
- Ruptured Aneurysms of the Sinus of Valsalva  
Jacob R. Morgan, Albert K. Rogers and  
Richard G. Fosburg, San Diego;  
*Editorial Expression*—Duncan A. Killen,  
Nashville .....640
- Friedreich's Ataxia in Childhood  
Ehud Krongrad and Howard A. Joos,  
New York City; *Editorial Expression*—  
A. A. Douglas Moore, Norfolk .....644
- Cancer of the Esophagus in Central Africa  
Simon Wapnick; L. N. D. Zanamwe;  
M. Chitiyo; and John M. Mynors,  
Salisbury, Rhodesia .....649
- Statistical Representation of the Ventilatory  
Capacity of 2,247 Healthy Japanese Adults  
Tetsuro Yokoyama and Makoto Mitsufuji,  
Tokyo, Japan .....655
- Studies on Cardiac Lymph during  
Extracorporeal Circulation  
Shiv R. Ullal, Trond H. Kluge and  
Frank Gerbode, San Francisco .....662
- Location of Catheter Tip and Its Impact  
on Central Venous Pressure  
Thomas V. Thomas, Kansas City, Kansas .....668
- A New Technique for  
Cardiac Valve Replacement  
Otto Gago and Marvin M. Kirsh,  
Ann Arbor .....674
- Coronary Artery Flow Velocity Curves during  
Ventricular Tachycardia; Investigations on  
Possible Mechanisms of Sudden Death  
Alberto Benchimol; Kenneth B. Desser;  
Shuzo Matsuo; and James Schumacher,  
Phoenix .....676
- Closed System Nasotracheal or  
Tracheostomy Irrigation  
Robert S. Deane, Burlington, Vermont ...678
- Spontaneously Regressing Cavitated  
Pulmonary Lesion  
Martin I. Gelman and Irwin M.  
Freundlich, Philadelphia .....680
- Alarming Ventricular Acceleration after  
Lidocaine Administration  
Henry J. L. Marriott and Clare F. Bieza,  
St. Petersburg .....682
- Sinoatrial Arrest due to Lidocaine in a  
Patient Receiving Quinidine  
Robert M. Jeresaty, Abdul H. Kahn and  
Arthur B. Landry, Jr., Hartford .....683
- Cardiac Tamponade in Procainamide  
Induced Lupus Erythematosus  
Charles J. Donlan, Jr. and Alan D. Forker,  
San Diego .....685
- Pleural Effusion: Unusual Presentation  
of Prostatic Cancer  
Volker Scheidemandel, Brian Salisbury  
and Charles F. Tate, Jr., Miami .....686
- Isolated Traumatic Tricuspid Regurgitation:  
Prolonged Survival without Operative Intervention  
N. S. Cahill; B. M. Beller; J. W. Linhart;  
and R. G. Early, San Antonio .....689
- Tracheotomy for Subcutaneous Emphysema  
and Pneumomediastinum Complicating Asthma  
Donald L. Unger and Roque Pifarre,  
Maywood, Illinois .....691
- Can Catheters Be an Electrical Safety Hazard?  
Lyle R. Monsees and Donald G. McQuarrie,  
Minneapolis .....692
- Sound Caused by Diaphragmatic Contraction  
Resulting from Transvenous Cardiac Pacemaker  
Joseph Schluger and Robert E. Wolf,  
Brooklyn .....693
- Endobronchial Hodgkin's Disease  
and Bronchoesophageal Fistula  
Gildo Renzi and Robert Lesage,  
Montreal, Canada .....696
- Laceration of the Tricuspid Valve  
by Pacemaker Wire  
Jaco Fishenfeld and Yvonne Lamy,  
Brooklyn .....697
- Author Index, Volume 61 (January-June, 1972) .699
- Subject Index, Volume 61 (January-June, 1972) .703

# AUTHOR INDEX

Volume 61, January-June, 1972

- Abelson, Denis M., 90  
 Aceto, Joseph N., 289  
 Adam, Maurice, 479  
 Adyanthaya, Ajit V., 407  
 Allan, G. W., 579, 587  
 Allen, Howard N., 37  
 Alrenga, Paul, 64S  
 Alroy, Gideon G., 465  
 Amikam, Benjamin, 287  
 Amsterdam, E.A., 426  
 Andersen, Howard A., 213  
 Anderson, Garland D., 407  
 Anderson, Ray C., 276  
 Arcebal, Azucena G., 221  
 Argano, B., 384  
 Aronow, Wilbert S., 187, 439  
 Ashba, Jean K., 447  
 Astrup, T., 394  
 Avery, Wilbur G., 62  
 Ayres, Stephen M., 501
- Bache, Robert J., 613  
 Balcerzak, S. P., 14S  
 Ballesterio, Rafael J., 303  
 Banchemo, Natalio, 15S  
 Barold, S. Serge, 195  
 Baron, A., 539  
 Barzilai, D., 488  
 Bass, Harry, 14  
 Beall, Arthur C., Jr., 413  
 Becker, Steven N., 198  
 Beller, Barry M., 312, 689  
 Belsky, Joseph L., 56  
 Benchimol, Alberto, 74, 183, 381, 676  
 Berecek, Kathleen H., 408  
 Berger, Richard A., 240  
 Bharati, Saroja, 331  
 Bieza, Clare F., 682  
 Biorck, G., 4  
 Bird, Kenneth T., 204  
 Birnbaum, M. L., 51S  
 Blakemore, Wm. S., 90  
 Block, A. Jay, 86  
 Bobrowitz, I. D., 629  
 Bohrer, Stanley P., 379  
 Bolooki, Hooshang, 247  
 Boman, Gunnar, 533, 545, 568  
 Bonchek, Lawrence I., 317
- Bonfils-Roberts, E. A., 469  
 Booth, Bernard, 174  
 Boyce, John M., 447  
 Brand, Barry, 301  
 Brem, Antonina M., 200  
 Brewer, George J., 60S  
 Brewer, Lyman A., 622  
 Bromberg, P. A., 14S  
 Brown, E. B., 67S  
 Brown, Morton, 492  
 Bruce, Thomas A., 443  
 Buechner, Howard A., 492  
 Burk, Richard H., 492  
 Burley, Stephanie W., 66S  
 Burns, B., 31S  
 Byrne-Quinn, E., 45S
- Cabrera, Reinaldo, 336  
 Cahill, N.S., 689  
 Cain, S. M., 48S  
 Callahan, John A., 484  
 Campbell, Donald, 101  
 Canon, Belle, 25S  
 Cassidy, John, 439  
 Castaneda, Aldo R., 613  
 Castellanos, Agustin Jr., 221, 409  
 Castillo, Cesar A., 221  
 Causey, William A., 79  
 Chahinian, Phillippe, 340  
 Chalmers, Geo. S., 65  
 Chapunoff, Eduardo, 221  
 Chaudhuri, Tapan K., 190  
 Chaudhuri, Tuhin K., 190  
 Chavez, Carlos M., 79  
 Cheng, Tsung O., 345  
 Cherniack, N. S., 49S  
 Chervony, Abraham, 331  
 Chester, Edward H., 154, 47S  
 Chiolero, Rene, 583  
 Chitiyo, M., 649  
 Chowdhury, Jayanta K., 228  
 Christie, James H., 190  
 Cohen, H. C., 294  
 Cohen, Peter J., 29S  
 Cohen, Stafford I., 499  
 Cokinos, D. V., 336  
 Cole, Robert, 296  
 Collier, Clarence R., 6S  
 Colmer, Marc, 496
- Committee on Tuberculosis, 405  
 Conn, J. Harold, 79  
 Connolly, John E., 65  
 Constans, P., 539  
 Cooley, Denton A., 317  
 Cornog, John, 198  
 Corpe, Raymond F., 564, 568  
 Cosby, Richard S., 235  
 Coury, Chas., 539, 545, 568  
 Cropp, Gerd J. A., 16S  
 Crosby, Ivan K., 145  
 Cugell, David W., 174  
 Cullen, James H., 228  
 Cunningham, Lawrence, 174
- Daneau, Didier, 117  
 Darras, Th., 555  
 Davidson, Paul T., 574  
 Davies, D. C., 31S  
 Davies, L. G., 258  
 Davis, Paul J., 496  
 Davis, Robert P., 6S  
 Deane, Robert S., 678  
 deLeon, Antonio C., Jr., 439  
 Dell, Ralph B., 3S  
 Dempsey, J. A., 51S  
 DeRemee, Richard A., 213  
 Desser, Kenneth B., 74, 183, 318, 676  
 Dillenkoffer, Robt. L., 492  
 Donlan, Charles J., 685  
 Dreifus, Leonard S., 310  
 Dunn, Marvin, 512
- Early, R. G., 689  
 Easton, Richard, 512  
 Eckert, Herbert L., 392  
 Eckles, Sandra, 301  
 Edelman, N. H., 49S  
 Edwards, Jesse E., 104  
 Edwards, Miles J., 25S  
 Einath, R., 488  
 Eldridge, Frederic L., 44S  
 Elveback, Lila R., 484  
 Enrile, Fernando T., 507  
 Epstein, P. E., 49S  
 Epstein, Ralph, 296  
 Esterly, John R., 298

- Fallah-nejad, Manoucher, 90  
 Fallon, R. J., 579  
 Farrehi, Cyrus, 121  
 Favez, Gerard, 583  
 Feigl, Dan, 388  
 Feltis, James M., 101  
 Fennessy, John J., 326  
 Ferrans, Victor, 357  
 Ferrer, M. Irene, 2, 336  
 Filley, Giles F., 1S, 45S, 603  
 Finch, C. A., 12S  
 Firestone, Frederick N., 50S  
 Firpo, R., 304  
 Fishenfeld, Jaco, 697  
 Fishman, A. P., 49S  
 Fleming, David G., 47S  
 Flowers, Nancy C., 17S  
 Forker, Alan D., 92, 68S  
 Fosburg, Richard G., 640  
 Foster, H. V., 51S  
 Fowler, Noble O., 24  
 Freundlich, Irwin M., 680  
 From, Arthur H. L., 613  
 Furman, Seymour, 411  
  
 Gago, Otto, 674  
 Gaidula, John J., 19S  
 Ganguli, P. C., 400  
 Garcia, Leonda, 396  
 Gaskell, James R., 392  
 Gee, Marlys H., 16S  
 Geisler, Gerald F., 479  
 Gelman, Martin I., 680  
 Gerbode, Frank, 662  
 German, John C., 6S  
 Gershengorn, Kenneth, 402  
 Geuning, Christiane, 117  
 Ghahramani, Ali, 247, 317  
 Giammona, Samuel T., 206  
 Gibson, William C., 283  
 Giddings, John A., 23S  
 Gilbert, Enid F., 392  
 Gimbel, Kenneth S., 41S  
 Glas-Greenwalt, Pia, 394  
 Goble, Marian, 574  
 Goldstein, Sidney, 600  
 Goodman, Max L., 48  
 Goodnough, David E., 83  
 Gordon, Garet M., 301  
 Gow, A., 587  
 Gozo, E. G., 294  
 Grieco, Michael H., 432  
 Grover, Robert F., 15S, 45S, 51S  
 Gruhn, John, 331  
 Grunow, William A., 298  
  
 Guller, Barbara, 70  
 Gunnar, Rolf M., 99  
 Gupta, Prem K., 18S  
 Gurtner, G. H., 31S  
 Guy, J. T., 14S  
 Guz, A., 67S  
 Gyselen, A., 55S  
  
 Hackney, Jack D., 6S  
 Haft, Jacob I., 18S, 402  
 Hallman, Grady L., 317  
 Handjani, Ali Akbar, 8S  
 Hapke, E. J., 41  
 Harrer, Wm. V., 9S  
 Harrison, Donald C., 420  
 Harrison, Edgar G., Jr., 213  
 Hayakawa, H., 37  
 Hazani, A., 488  
 Heilbrunn, Alfred, 14S  
 Hendrix, Lavonne, 409  
 Herod, Gilbert, 482  
 Higgins, Charles B., 189  
 Hiller, Erhard, 452  
 Hirai, Junichi, 6S  
 Hobby, Gladys L., 517, 550, 568  
 Houk, Vernon N., 518, 54S, 568  
 Howard, Thora, 622  
 Huber, Gary L., 66S  
 Hunt, Keith K., Jr., 296  
 Hurley, E. J., 304  
  
 Iben, A. B., 304  
 Imai, Yasuharu, 192  
 Immagoulou, Ayten, 276  
 Iyengar, K., 81  
  
 Jacobs, J., 41  
 James, Thomas N., 494  
 Janson, Susan L., 240  
 Jarboe, Thomas M., 61S  
 Jeresaty, Robert M., 683  
 Joos, Howard A., 644  
 Jorgensen, Charles R., 613  
 Jourdain, Luis M., 507  
 Jude, James R., 247  
  
 Kabins, Sherwin A., 503  
 Kaemmerlen, John T., 228  
 Kaftori, Joseph K., 46S  
 Kahn, Abdul H., 683  
 Kamalian, Naser, 8S  
 Kanter, J., 488  
 Karetzky, M. S., 48S  
 Kass, Irving, 459  
 Katsuhara, Kimiko, 56  
  
 Kawamoto, Sadahisa, 56  
 Keith, Thomas A., III, 24  
 Kerber, Richard E., 420  
 Kermaier, Alan, 37  
 Khoury, George H., 392  
 Kim, Eun Sook, 301  
 Killen, Duncan A., 640  
 King, James F., 512  
 Kirsh, Marvin M., 674  
 Klastersky, Jean, 117  
 Kleid, Jack J., 301  
 Kleinerman, Jerome, 154  
 Kleinhaus, N., 488  
 Klemperer, Martin R., 33  
 Kline, J. S., 45S  
 Klocke, Robert A., 20S  
 Kluge, Trond H., 662  
 Kolff, Willem J., 159, 36S  
 Kossowsky, Warren, 396  
 Krag, Daniel, 514  
 Kralios, Alex C., 156, 36S  
 Krongrad, Ehud, 644  
 Kuo, Chien-Suu, 503  
 Kypridakis, George, 622  
  
 LaForce, F. Marc, 66S  
 Laforet, Eugene G., 48  
 Lambert, Cary J., 479  
 Lamy, Yvonne, 697  
 Landa, Jose, 62  
 Landry, Arthur B., 683  
 Langendorf, Richard, 426  
 Lemberg, Louis, 221  
 Leachman, R. D., 336  
 Lees, A. W., 579, 587  
 Lesage, Robert, 696  
 Lester, William, 574  
 Lev, Maurice, 331  
 Levine, Richard S., 396  
 Levinson, David A., 397  
 Lewis, Richard D., 23S  
 Lichtig, Chaim, 46S  
 Lindesmith, Larry A., 83  
 Linhart, Joseph W., 134, 312, 689  
 Lisa, Charles P., 291  
 Litwack, Kenneth D., 397  
 Liu, Mai, 64S  
 Lofstrom, B., 10  
 Long, David M., 64S  
 Loudon, Robert G., 524  
 Ludington, Louis G., 622  
 Luisada, A. A., 384  
 Luke, Robert G., 61S  
 Luria, Myron H., 617  
 Lwin, M. M., 267



- Lwin, Nyunt, 206  
 Lynch, Robert E., 443  
 Lynn, R. B., 81  
 Lynne-Davies, P., 400  
 Lyon, Alan F., 396  
 Lyons, Harold A., 26S  
  
 Maisel, John C., 603  
 Mandel, William J., 37  
 Marcus, Frank I., 420  
 Marks, Charles, 253  
 Marmor, Abraham, 388  
 Marriott, Henry J. L., 682  
 Martinez, Luis O., 181  
 Mason, D. T., 426  
 Mason, Robert J., 66S  
 Massumi, R. A., 426  
 Mathur, Ambrish, 507  
 Matlin, Arnold H., 33  
 Matsumuro, Masatomo, 192  
 Matsuo, Shuzo, 676  
 Mbete, S., 555  
 McCullough, R. E., 45S  
 McQuarrie, Donald G., 692  
 Meek, J. C., 41  
 Metcalfe, James, 12S  
 Milic-Emili, J., 42S  
 Miller, George V., 407  
 Mitchel, Ben F., 479  
 Mitchell, Roger S., 603  
 Mitsufuji, Makoto, 655  
 Moore, A. A. Douglas, 644  
 Mogensen, L., 4, 6, 10  
 Mohler, John G., 6S  
 Moller, James H., 276  
 Monsees, Lyle R., 692  
 Morgan, Jacob R., 92, 510, 640  
 Moss, Arthur J., 600  
 Mouawad, Emile, 117  
 Mouloupoulos, Spyridon S.  
 Mukherjee, Nrisingha D., 65  
 Mulder, Donald G., 189  
 Mullenburg, Mark I., 190  
 Mynors, John M., 649  
  
 Nakamura, T., 262  
 Nakagawa, Hideo, 526  
 Nathan, David A., 408  
 Navarrete, A. R., 51  
 Neff, Thomas A., 18  
 Neuman, Alexander, 633  
 Nik-Akhtar, B., 85  
 Nitti, Vito, 589  
 Nola, Gaeton T., 420  
 Nyquist, O., 4, 6, 10  
  
 O'Connell, Cornelius J., 307  
 O'Connor, Thomas M., 141  
 Oelshlegel, Fred J., 60S  
 Olsen, Arthur M., 452  
 Orinius, E., 4, 6, 10  
 Orvald, Thomas, 247  
  
 Padilla, F., 14S  
 Paradise, Richard A., 83  
 Park, Sung Suh, 39S  
 Parrot, R., 539  
 Parsonnet, Victor, 165, 203  
 Patchefsky, Arthur S., 95  
 Pelczar, M. E., 394  
 Penman, Robert W., 61S  
 Petty, Thomas L., 309, 376, 603, 678  
 Pick, A., 294  
 Pifarre, Roque, 691  
 Pinch, Lewis W., 194  
 Pittman, John N., 482  
 Plavnick, J., 488  
 Polk, John W., 361  
 Pore, R. Scott, 392  
 Porter, Sara L., 66S  
 Power, Gordon G., 22S  
 Price, Everett C., 407  
 Primiano, Frank, 154, 47S  
  
 Quaife, Merton A., 459  
  
 Radner, D. B., 520, 545, 568  
 Rahimtoola, Shahbudin H., 99  
 Rainer, W. Gerald, 413  
 Raleigh, James, 545, 568  
 Rankin, J., 51S  
 Rappaport, Henry, 326  
 Ray, C. Thorpe, 125  
 Reddan, W. G., 51S  
 Reddy, Prathapchandra, 361  
 Reich, Stanley B., 514  
 Reidt, William, 200  
 Remmers, John E., 42S  
 Renzi, Gildo, 696  
 Reydman, Melvin, 253  
 Ribauda, Charles A., 501  
 Roberts, William C., 357  
 Robin, Eugene D., 67S  
 Robinson, Morton J., 505  
 Rogers, Albert K., 640  
 Rogers, Philip M., 501  
 Rogers, Robert M., 376  
 Rosen, Kenneth M., 99, 331  
  
 Rosenow, Edward C., III, 452  
 Ross, Melvin, 408  
 Rosser, T. H. L., 258  
  
 Sackner, Marvin A., 62, 287  
 Sakakibara, Shigeru, 192  
 Salel, A. F., 426  
 Salisbury, Brian, 686  
 Samad, Iqbal A., 307  
 Sanchez, Elio S., 564  
 Sasaki, H., 262  
 Sasaki, T., 262  
 Schatz, Irwin J., 477  
 Scheidemandel, Volker, 686  
 Schluger, Joseph, 693  
 Schmidt, Robert M., 47S  
 Schoomaker, Eric B., 60S  
 Schor, Stanley, 486  
 Schumacher, James, 74, 183, 381, 676  
 See, Jackie R., 235  
 Segal, Maurice, 516  
 Sehat, Ali, 194  
 Seo, In Sook, 198  
 Severinghaus, J. W., 67S  
 Sewell, William H., 481  
 Sharma, Om P., 77, 320  
 Shurin, Paul A., 86  
 Siderys, Harry, 482  
 Sil, A. K., 406  
 Silvers, G. Wayne, 603  
 Singh, H. M., 258  
 Sjogren, A., 4, 6, 10  
 Skinner, N. Sheldon, Jr., 13S  
 Slavin, Raymond G., 432  
 Smith, J., 579, 587  
 Smith, McKamy, 125  
 Sobonya, Richard E., 154  
 Sobal, I. E., 45S  
 Soffer, Alfred, 1, 100, 414, 483, 517  
 Solu, Sami, 306  
 Sommer, Leonard S., 247  
 Stacks, Pamela E., 420  
 Stead, William W., 545  
 Stein, Paul D., 443  
 Stemmer, Edward A., 187  
 Sterns, L. P., 400  
 Strickland, A. Wade, 178  
 Sugerman, Harvey J., 376  
 Sunahara, Shigeichi, 526, 545  
 Surawicz, Borys, 415  
 Suryaprasad, A. G., 494  
 Sutaria, Maganlal K., 361  
 Szanto, Paul S., 64S

- Tabak, Delia, 26S  
Tabatabai, Hasan, 85  
Takahashi, K., 262  
Takishima, T., 262  
Talley, Robert C., 312  
Tantum, Kermit R., 376  
Tate, Charles F., 686  
Tavel, Morton E., 291  
Tenney, S. M., 41S  
Thoden, J., 51S  
Thomas, Thomas V., 668  
Tjoe, Soen L., 617  
Tominaga, Seiichi, 192  
Trummer, Max J., 92  
Tuteur, P. G., 49S  
Tyrrell, W. F., 579, 587  
  
Uehara, Kichisaburo, 192  
Ullal, Shiv R., 662  
Unger, Donald L., 691  
Uyeyama, Ronald R., 439  
  
Vanasin, Boon, 496  
Van Landuyt, H., 555  
Van Ordstrand, Howard S., 568  
Van Slyck, Ellis J., 494  
Van Tassel, Robert A., 104  
Vargas, Abelardo, 247  
Variakojis, Daina, 326  
Verbist, Ludo, 545, 555, 568  
Verska, Joseph J., 622  
Vineberg, Arthur, 267  
  
Waddell, William J., 56S  
Waisser, Effrain, 503  
Wakabayashi, Akio, 65  
Wakabayashi, Toshiro, 56  
Wang, Yang, 613  
Wanner, Adam, 287  
Wapnick, Simon, 649  
Wasserman, Karlman, 46S, 53S  
Watson, Raymond R., 141  
Webster, James R., Jr., 174  
  
Weil, J. V., 45S  
Weisel, Wilson, 141  
Werner, B., 10  
Whipp, Brian J., 46S, 53S  
Wiener, Stephen N., 253  
Willa, Claude, 583  
Winga, Edward R., 83  
Winters, Robert W., 3S  
Wolf, Robert E., 69S  
Wollman, Harry, 30S  
Woods, Roscoe, 376  
Wu, Yenching, 365  
Wukasch, Don C., 317  
  
Yokoyama, Tetsuro, 655  
Young, Lionel W., 33  
  
Zamalloa, Oscar, 336  
Zanamwe, L. N. D., 649  
Zelis, Robert, 599  
Zwart, Hans H. J., 159, 365

# SUBJECT INDEX

Volume 61, January-June 1972

- Abnormalities, congenital diffuse bronchio-alveolitis, variant of cystic lung disease, 507
- Abscess, amebic, right lower lobe, in Nigerian, 379
- Acid-base reactions, in emphysema, 3S, 3S, 6S, 6S, 26S, 31S
- Acidosis, respiratory, after smoke inhalation, 62
- ACTH: See Corticotropin
- Airway obstruction, direct-writing recorder of flow-volume curve, 262
- upper, rare presentation of chronic lymphocytic leukemia, 505
- Airway resistance, central, in excised emphysema lungs, 603
- Alkalosis, metabolic, emphysema research, 39S, 61S
- Allied health professions, respiration, circulation and, 1
- Alpha<sub>1</sub>-antitrypsin deficiency, possible causal relationship to multiple sclerosis, 307
- Altitude, pulmonary adaptations to, significance of, 51S
- Alveolar hypoventilation, idiopathic, related to head trauma, 187
- Amebic lung abscess, right lower lobe, in Nigerian, 379
- Amphotericin B, for deep entomorphothora phycomycotic infection, 392
- Amyloidosis, primary lung, tracheobronchopatia osteoplastica, end stage of?, 465
- Anesthesia, general, effects on ratio of cerebral blood flow to O<sub>2</sub> utilization, 30S
- postanesthetic suggestion in preventing postoperative pulmonary complications, 240
- Aneurysm, acute dissecting ascending aortic, due to coronary arteriography, 317
- left ventricular false, rupture of heart in myocardial infarction with, 104
- left ventricular pseudoaneurysm after open-heart surgery, 90
- ruptured, of sinus of Valsalva, 640
- Angina pectoris, coronary artery surgery for impaired left ventricular function with, 482
- preinfarction, aortocoronary bypass graft for, 247
- preinfarction, evaluation, 312
- Antigens, pollen, cromolyn sodium inhibition of challenge of, 432
- Antitrypsin: See Alpha<sub>1</sub>-antitrypsin
- Aorta, aortocoronary bypass graft for preinfarction angina, 247
- high fibrinolytic activity in, in primary pulmonary aspergillosis, 394
- Aortic aneurysm, acute dissecting ascending, due to coronary arteriography, 317
- Aortic arch, interruption of, clinical features, 276
- left, mirror-image dextrocardia with tetralogy, 92
- Aortic stenosis: See also Subaortic stenosis
- combined pulmonic, with ostium primum atrial septal defect, 510
- Aortic valve, insufficiency, phonocardiographic picture of, 384
- replacement, coronary artery bypass for acute iatrogenic ostial injuries, 304
- Arrhythmia, alternate patterns of premature ventricular excitation during spontaneous atrial bigeminy, 499
- atrial, related to sinoatrial node trauma, 310, 331
- increased intracranial pressure, autonomic nervous system and, 125
- lidocaine in myocardial infarction with, how benign?, 599
- sinus node, in chronic granulocytic leukemia, 494
- ventricular extrasystoles, apparent malfunction of pacemaker from, 426
- ventricular parasystole with reentry in AV node, 415
- Arteries, punctures by inhalation therapy personnel, 83
- Arteriography: See Coronary arteriography
- Asia-Pacific Congress on Diseases of Chest, Taipei, Taiwan, photos, 152
- Aspen Conference on Emphysema, 14th, suppl Feb, 74 pp
- Asthma, cromolyn sodium inhibition of aerosol antigen challenge, 432
- endogenous regulation of pulmonary response to isoproterenol, 14
- tracheotomy for subcutaneous emphysema and pneumomediastinum in, 691
- Atrial septal defect, ostium primum, combined aortic and pulmonic valvular stenosis with, 510
- Atrioventricular conduction, ventricular acceleration after lidocaine, 682
- Atrioventricular node, ventricular parasystole with reentry in, 415
- Atrium, catheters, electrical safety hazard?, 692
- mass, influence on amplitude and duration of P wave, 336
- spontaneous bigeminy, alternate patterns of premature ventricular excitation during, 499
- Autonomic nervous system, cardiac arrhythmias, increased intracranial pressure and, 125
- Beriberi, acute pernicious heart disease of, 512
- Biopsy, bronchial brush, in diagnosis of Hodgkin's disease, 326
- lung, percutaneous trephine, 18
- lung, ultrastructural findings in idiopathic interstitial pneumonia, 86
- pleural, Ballester needle, reliable instrument for, 303
- Blood gas analysis, arterial, punctures by inhalation therapy personnel, 83
- Blood pressure, effects of carotid sinus nerve stimulation on, 121
- Bone marrow, heterotopic (myelolipoma) of mediastinum, 514
- Bookshelf, Mar p26, Apr p30
- Bradycardia, sinus, related to trauma to sinoatrial node, 310, 331
- Breathing exercises, postanesthetic suggestion in preventing postoperative pulmonary complications, 240
- Bronchi, brush biopsy in diagnosis of Hodgkin's disease, 326
- endobronchial Hodgkin's disease and bronchoesophageal fistula, 696
- infections, tracheostomy patients, endotracheal gentamicin in, 117
- pulmonary function following traumatic rupture of one, 400
- tracheal, developmental relationship between bronchogenic cyst, pulmonary sequestration and, 253
- traumatic rupture of, 81
- Bronchial anastomosis, longterm follow-up study, 141
- Bronchial neoplasms, adenocystic and mucoepidermoid carcinoma, 145
- Bronchio-alveolitis, congenital diffuse, variant of cystic lung disease, 507
- Bronchiolar carcinoma, alveolar cell, great imitator, 622
- Bronchofiberoscopy, bedside technique, 287
- Bronchogenic cyst, developmental relationship between tracheal bronchus, pulmonary sequestration and, 253
- Brushing technique: See Biopsy
- Bundle branch block, cycle length-dependent left and right, and left anterior hemiblock, 388
- second-degree A-V, His bundle electrograms in, 37
- Calcification of annulus of tricuspid valve, 307
- Calcium: See also Hypocalcemia
- intrafissural mid-zonal anthracotic lymph node presenting as coin lesion, 501
- Cancer: See Neoplasms
- Candida parakrusei* endocarditis, late thrombotic obstruction of tricuspid valve prosthesis due to, 613
- Carbon dioxide, acid-base reactions and, in emphysema, 3S, 3S, 6S, 6S, 20S, 39S
- inspired, ventilatory responses to, in cystic fibrosis, 206
- transfer of O<sub>2</sub> and, in placenta, 22S

- Carbon monoxide, carboxyhemoglobin saturations after smoke inhalation, 62
- Carcinoma, adenocystic and mucopidermoid, of tracheobronchial tree, 145
- bronchiolar, alveolar cell, great imitator, 622
- cavitated pulmonary, spontaneous regression, 680
- Cardiac: See also Heart
- arrest, sinoatrial, due to lidocaine interaction with quinidine, 683
- disease, acute pernicious beriberi, 512
- diseases, allied health professions and, 1
- lymph during extracorporeal circulation, 662
- Cardiopulmonary bypass: See Extracorporeal circulation
- Cardiovascular depression, effects of glucagon on, 420
- Cardiovascular techniques, cardiac valve replacement, 674
- Carotid sinus nerve stimulation, effect on respiratory output, 44S
- Carotid sinus nerve, effect on respiratory output, 44S
- stimulation, cardiovascular effects of, 121
- Catheter, electrical safety hazard? 692
- location of tip, impact on central venous pressure, 668
- pacemaker, persistent left superior vena cava complicating insertion of, 396
- Catheterization, cardiac, complete heart block complicating, 185
- Central airway resistance in excised emphysema lungs, 603
- Central nervous system, interactions in, in emphysema, 29S, 30S, 31S, 39S
- Central venous pressure, impact of location of catheter tip on, 66
- Cerebral blood flow, effects of general anesthesia on ratio to O<sub>2</sub> utilization, 30S
- Cerebrospinal fluid, acid-base balance between blood and, 31S
- Cerebrovascular thromboembolism, in child with Friedreich's ataxia, 644
- Chemodectoma, solitary primary, of lung, 48
- Chest, new department, "Editorial Expression," 414
- Chest, Asia-Pacific Congress on Diseases of Chest, Taipei, Taiwan, photos, 152
- injury, rupture of bronchus due to, 81
- pain, fatigue and left testicular discomfort, 77
- Chloroquine in cutaneous sarcoidosis, 320
- Clinical Conference in Pulmonary Disease, detergent worker lung, 174
- Coal miners, disability of, 306
- Collagen, pure, plaques on diaphragm and pleura, 357
- College, international educational programs of, 100
- College news, Feb p12+, Mar p17+, Apr p21+
- Commissurotomy, closed mitral, complications, effect on survival, 24
- Committee on Tuberculosis, utilization of general hospitals in treatment of tuberculosis, 405
- Consultants for the journal, 1971, 97
- Coronary arteries, aortocoronary bypass graft for preinfarction angina, 247
- bypass for acute iatrogenic ostial injuries, 304
- flow supplementation in experimental myocardial infarction with shock, 365
- flow velocity curves during ventricular tachycardia, 676
- omental grafts in restoration of failing enlarged ischemic heart, 267
- surgery for impaired left ventricular function, 482
- Coronary arteriography, acute dissecting ascending aortic aneurysm due to, 317
- in evaluation of preinfarction angina, 312
- thromboembolism following, 235
- Coronary care unit, delays in reaching, analysis, sudden death, 600, 617
- Coronary circulation, effects of carotid sinus nerve stimulation on, 121
- Coronary disease, aortocoronary bypass graft for preinfarction angina, 247
- cardiovascular effects of carotid sinus nerve stimulation in, 121
- late systolic murmur in, 346
- restoration of failing enlarged ischemic heart, 267
- surgery for, 1971 reflection of 1970 statistics, 475, 477
- surgery, life table analysis of results of, 481
- Corticotropin, pulmonary function after isoproterenol and stimulation by, 14
- Cough, postanesthetic suggestion in preventing postoperative complications, 240
- Critical review, interruption of aortic arch, 276
- location of catheter tip, impact on central venous pressure, 668
- power sources for implantable pacemakers, 165
- stenosis of pulmonary arteries, 70
- Cromolyn sodium, inhibition of aerosol antigen challenge, 432
- Cryptococcosis, pulmonary, pleural effusion secondary to, 296
- Cyst, bronchogenic, developmental relationship between tracheal bronchus, pulmonary sequestration and, 253
- Cystic disease of lung, congenital diffuse bronchio-alveolitis a variant of, 507
- Cystic fibrosis, ventilatory responses to inspired CO<sub>2</sub> in, 206
- Death, sudden, in pre-hospital phase of myocardial infarction, 600, 617
- sudden, possible mechanisms in ventricular tachycardia, 676
- Detergents, lungs of workers exposed to, 174
- Dextrocardia, mirror-image, with tetralogy, 92
- Diagnostic techniques, bedside bronchofiberscopy, 287
- Dialysis, chronic, cessation of pulmonary hemorrhage in Goodpasture's syndrome during, 85
- Diaphragm: See also Hemidiaphragm
- pacemaker sound originating in, 195
- pure collagen plaques on, 357
- 2,3-Diphosphoglycerate, emphysema research, 16S, 20S, 25S
- Dirofilariasis, pulmonary, 51
- Doppler cardiogram, unusual manifestations of left ventricular pseudoaneurysm after open-heart surgery, 90
- Doppler flowmeter, coronary artery flow velocity curves during ventricular tachycardia, 676
- Echinococcus cyst, constrictive pericarditis with, 194
- Effusion: See Pericardial effusion; Pleural effusion
- Electricity, catheters as safety hazard?, 692
- Electrocardiogram of month, simultaneous sinoatrial and atrioventricular Wenckebach phenomena, 178
- Electrocardiography: See also Vectorcardiography
- amplitude and duration of P wave, effect of atrial mass on, 336
- changes in myocardial rupture with tamponade in infarction, 6
- effect of intermittent regional delay of left ventricular activation on, 633
- His bundle, study of second-degree A-V block, 37
- leftward shift of frontal plane QRS axis in acute pulmonary embolism, 443
- significance of axis deviation, 2
- Embolism: See Pulmonary embolism
- Emphysema, excised lungs, central airway resistance in, 603
- 14th Aspen Conference, suppl Feb, 74pp
- subcutaneous, in asthma, tracheotomy for, 691
- Endocarditis, acute bacterial, heart block in, 301
- Candida parakrusei*, late thrombotic obstruction of tricuspid valve prosthesis due to, 613
- Entomophthora phycomycotic infection in US, 392
- Epithelial cells, atypical transitional, in pulmonary embolus, 198
- Erythrocytes, interactions in, emphysema, 20S, 22S, 25S, 26S
- Esophageal neoplasms, cancer in Central Africa, 649
- Esophagus, bronchoesophageal fistula and endobronchial Hodgkin's disease, 696
- Ethambutol, in tuberculous meningitis, 629
- rifampin with, in pulmonary tuberculosis, 579
- Exercise test, Master 2-step, effect of position on phonocardiogram, 439
- Experimental approaches, cardiac lymph during extracorporeal circulation, effect on survival, 24
- Committee on Tuberculosis, utilization of general hospitals in treatment of tuberculosis, 405
- Consultants for the journal, 1971, 97
- Coronary arteries, aortocoronary bypass graft for preinfarction angina, 247
- bypass for acute iatrogenic ostial injuries, 304
- flow supplementation in experimental myocardial infarction with shock, 365
- flow velocity curves during ventricular tachycardia, 676
- omental grafts in restoration of failing enlarged ischemic heart, 267
- surgery for impaired left ventricular function, 482
- Coronary arteriography, acute dissecting ascending aortic aneurysm due to, 317
- in evaluation of preinfarction angina, 312
- thromboembolism following, 235
- Coronary care unit, delays in reaching, analysis, sudden death, 600, 617
- Coronary circulation, effects of carotid sinus nerve stimulation on, 121
- Coronary disease, aortocoronary bypass graft for preinfarction angina, 247
- cardiovascular effects of carotid sinus nerve stimulation in, 121
- late systolic murmur in, 346
- restoration of failing enlarged ischemic heart, 267
- surgery for, 1971 reflection of 1970 statistics, 475, 477
- surgery, life table analysis of results of, 481
- Corticotropin, pulmonary function after isoproterenol and stimulation by, 14
- Cough, postanesthetic suggestion in preventing postoperative complications, 240
- Critical review, interruption of aortic arch, 276
- location of catheter tip, impact on central venous pressure, 668
- power sources for implantable pacemakers, 165
- stenosis of pulmonary arteries, 70
- Cromolyn sodium, inhibition of aerosol antigen challenge, 432
- Cryptococcosis, pulmonary, pleural effusion secondary to, 296
- Cyst, bronchogenic, developmental relationship between tracheal bronchus, pulmonary sequestration and, 253
- Cystic disease of lung, congenital diffuse bronchio-alveolitis a variant of, 507
- Cystic fibrosis, ventilatory responses to inspired CO<sub>2</sub> in, 206
- Death, sudden, in pre-hospital phase of myocardial infarction, 600, 617
- sudden, possible mechanisms in ventricular tachycardia, 676
- Detergents, lungs of workers exposed to, 174
- Dextrocardia, mirror-image, with tetralogy, 92
- Diagnostic techniques, bedside bronchofiberscopy, 287
- Dialysis, chronic, cessation of pulmonary hemorrhage in Goodpasture's syndrome during, 85
- Diaphragm: See also Hemidiaphragm
- pacemaker sound originating in, 195
- pure collagen plaques on, 357
- 2,3-Diphosphoglycerate, emphysema research, 16S, 20S, 25S
- Dirofilariasis, pulmonary, 51
- Doppler cardiogram, unusual manifestations of left ventricular pseudoaneurysm after open-heart surgery, 90
- Doppler flowmeter, coronary artery flow velocity curves during ventricular tachycardia, 676
- Echinococcus cyst, constrictive pericarditis with, 194
- Effusion: See Pericardial effusion; Pleural effusion
- Electricity, catheters as safety hazard?, 692
- Electrocardiogram of month, simultaneous sinoatrial and atrioventricular Wenckebach phenomena, 178
- Electrocardiography: See also Vectorcardiography
- amplitude and duration of P wave, effect of atrial mass on, 336
- changes in myocardial rupture with tamponade in infarction, 6
- effect of intermittent regional delay of left ventricular activation on, 633
- His bundle, study of second-degree A-V block, 37
- leftward shift of frontal plane QRS axis in acute pulmonary embolism, 443
- significance of axis deviation, 2
- Embolism: See Pulmonary embolism
- Emphysema, excised lungs, central airway resistance in, 603
- 14th Aspen Conference, suppl Feb, 74pp
- subcutaneous, in asthma, tracheotomy for, 691
- Endocarditis, acute bacterial, heart block in, 301
- Candida parakrusei*, late thrombotic obstruction of tricuspid valve prosthesis due to, 613
- Entomophthora phycomycotic infection in US, 392
- Epithelial cells, atypical transitional, in pulmonary embolus, 198
- Erythrocytes, interactions in, emphysema, 20S, 22S, 25S, 26S
- Esophageal neoplasms, cancer in Central Africa, 649
- Esophagus, bronchoesophageal fistula and endobronchial Hodgkin's disease, 696
- Ethambutol, in tuberculous meningitis, 629
- rifampin with, in pulmonary tuberculosis, 579
- Exercise test, Master 2-step, effect of position on phonocardiogram, 439
- Experimental approaches, cardiac lymph during extracorporeal circulation, effect on survival, 24



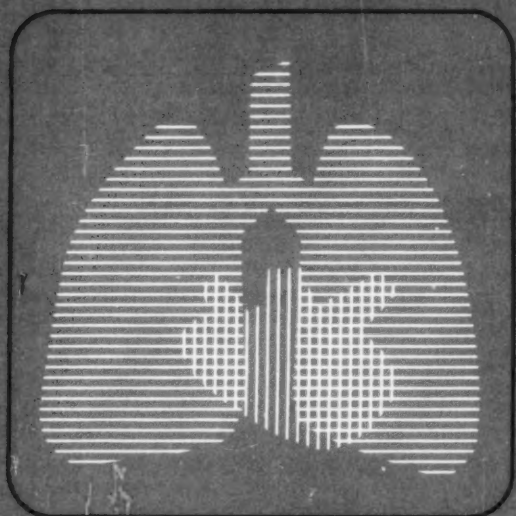
- lation, 662  
coronary flow supplementation in myocardial infarction with shock, 365  
nonpulsatile and pulsatile extracorporeal circulation compared, 65  
restoration of failing enlarged ischemic heart, 267
- Extracorporeal circulation, cardiac lymph during, 662  
effects of right heart bypass on acute ventricular failure, 159  
nonpulsatile and pulsatile effects on renal perfusion, 65  
pulmonary changes, effects on granular pneumocytes, 154
- Extrasystole, ventricular, apparent malfunction of pacemaker from, 426
- Fatigue, chest pain, left testicular discomfort and, 77
- Fiberoscopy, bronchial, bedside technique, 287
- Fibrinolytic activity, high in aorta, primary pulmonary aspergillosis with, 394
- Fibrosis, classic interstitial pneumonitis with, clinicopathologic syndrome, 213
- Fires, physiologic observations in smoke inhalation, 62
- Fistula, bronchoesophageal, and endobronchial Hodgkin's disease, 696  
subarachnoid-pleural, traumatic, 189
- Flow-volume curve, direct-writing recorder of, 262
- Fluorocarbon, radiopaque, for studying pulmonary structure and function, 645
- Friedreich's ataxia in child with myocardial infarction and cerebrovascular thromboembolism, 644
- Gentamicin, endotracheal, in bronchial infections, 117
- Glomerulonephritis, streptococcal pneumonia complication, 397
- Glucagon, effects on multistressed circulation, 420
- Glucocorticosteroids, endogenous regulation of pulmonary response to isoproterenol after, 14
- Glycolysis, intraerythrocytic control mechanisms, 605
- Goodpasture's syndrome, cessation of pulmonary hemorrhage with dialysis, 85
- Graphic techniques, concordant right and left heart pressure and flow velocity alternans, 183  
coronary artery flow velocity curves during ventricular tachycardia, 676  
phasic renal artery flow velocity during ventricular tachycardia, 381  
tricuspid stenosis, 291  
vectorcardiogram in distinguishing left anterior hemiblock, 74
- Hamman-Rich syndrome, classic interstitial pneumonitis-fibrosis, clinicopathologic syndrome, 213
- Head, trauma, idiopathic alveolar hypoventilation related to, 187
- Heart: See also Cardiac  
axis deviation, left, vectorcardiogram for distinguishing left anterior hemiblock from, 74  
axis deviation, significance of, 2  
beat, pacer premature, manifestation of malfunction, 408  
catheterization, in evaluation of preinfarction angina, 312  
enlargement, failing ischemic, restoration of, 267  
rupture complicating myocardial infarction, 104
- Heart block: See also Bundle branch block  
complete, complicating cardiac catheterization, 185  
complicating acute bacterial endocarditis, 301  
intermittent, related to hypertension therapy, 402  
left anterior hemiblock, and cycle length-dependent left and right bundle branch block, 388  
left anterior hemiblock, vectorcardiogram in diagnosis, 74  
left posterior hemiblock with inferior myocardial infarction, vectorcardiogram in, 221  
second-degree A-V, His bundle electrograms in, 37  
second degree A-V, site and type of, 99  
traumatic bifascicular intraventricular, 294
- Heart disease, congenital, interruption of aortic arch, 276  
congenital, stenosis of pulmonary arteries, 70  
congenital, successful total correction of common ventricle, 192  
ischemic: See Angina pectoris; Coronary disease; Myocardial infarction
- Heart failure, acute ventricular, effects of right heart bypass on, 159
- Heart murmurs, late systolic, in coronary disease, 346
- Heart rate, effects of carotid sinus nerve stimulation on, 121
- Heart sounds: See also Heart murmurs; Phonocardiography  
presystolic click due to transvenous cardiac pacemaker, 693
- Heart surgery, coronary artery bypass in preinfarction angina, 312  
emergency, for tamponade in myocardial rupture, 10  
emergency myocardial revascularization for impending infarctions, 479  
for coronary disease, life table analysis of results of, 481  
for coronary disease, 1971 reflection of 1970 statistics, 475, 477  
open, left ventricular pseudoaneurysm after, 90  
successful total correction of common ventricle, 192
- Heart transplantation, influence of atrial mass on amplitude and duration of P wave, 336
- Heart valve prosthesis: See also Tricuspid valve  
leakage following replacements, 258
- Heart valves: See also Aortic valve; Mitral valve; Pulmonic Valve; Tricuspid valve  
new technique for replacement, 674
- Hemiazygos system, atypical intralobar pulmonary sequestration with drainage via, 492
- Hemiblock: See Heart block
- Hemidiaphragm, contraction due to transvenous cardiac pacemaker, 693
- Hemodynamic depression, effects of glucagon on, 420
- Hemodynamic effects of stenosis of pulmonary arteries, 70
- Hemoglobin, physiology of oxygen delivery, emphysema research, 145, 155, 265
- Hemorrhage, pulmonary, cessation with chronic dialysis in Goodpasture's syndrome, 85
- Hepatotoxicity in rifampin-isoniazid treated tuberculosis patients, 587
- Histiocytosis X, pleural effusion in children with, 33
- Histoplasmosis, focalized pulmonary, 361
- History, rib spreader in thoracic surgery history, 469  
student discoveries in pulmonary and cardiovascular system, 283
- Hodgkin's disease, diagnosis by bronchial brush biopsy, 326  
endobronchial, and bronchoesophageal fistula, 696
- Hospitals, general, undiagnosed tuberculosis in, 447  
general, utilization for tuberculosis treatment, Committee report, 405
- Hydatid cyst: See Echinococcus cyst
- Hydrocortisone, in acute myocardial infarction, 483, 484, 486, 488
- Hydrogen ion concentration, emphysema research, 205, 565, 605
- Hyperpnea, of exercise, analysis of, 465
- Hypersensitivity, pulmonary disease of detergent worker related to? 174
- Hypertension, intermittent heart block related to treatment of, 402
- Hypocalcemia, during chemotherapy of pulmonary tuberculosis, 496
- Hypokalemia, during chemotherapy of pulmonary tuberculosis, 496
- Hypomagnesemia, during chemotherapy of pulmonary tuberculosis, 496
- Hypoventilation, idiopathic alveolar, related to head trauma, 187
- Hypoxemia, of chronic lung disease, 255, 265
- Hypoxia, chronic, effects on ventilatory control, 455
- Immunity, altered activity in classic interstitial pneumonitis-fibrosis syndrome, 213
- Infant, newborn, diffuse bronchio-alveolitis in, variant of cystic lung disease, 507
- Inhalation therapy, arterial punctures for, 83
- Injections, endotracheal gentamicin in bronchial infections, 117
- Innominate artery, tortuous, widening of

- superior mediastinum to the right due to, 181
- International educational programs of College, 100
- Intracranial pressure, increased, cardiac arrhythmias, and autonomic nervous system, 125
- Irrigation, nasotracheal or tracheostomy, closed system, 678
- Isoniazid, rifampin with, in pulmonary tuberculosis, 533, 539, 579, 583, 587
- Isoproterenol, endogenous regulation of pulmonary response to, 14
- Japan, ventilatory capacity of healthy adults in, statistics, 655
- Japanese population, situs inversus totalis and Kartagener's syndrome in, 56
- Kartagener's syndrome, and situs inversus totalis in Japanese population, 56
- Lactic dehydrogenase, cardiac specific, elevation in child with Friedrich's ataxia, 644
- Leukemia, granulocytic, chronic, sinus node in, 494
- lymphocytic, chronic, upper airway obstruction, rare presentation of, 505
- Lidocaine, for arrhythmias in myocardial infarct, how benign? 599, 683
- ventricular acceleration after, 682
- Life expectancy, analysis of results of coronary surgery, 481
- Liver, toxicity in rifampin-isoniazid treated tuberculosis patients, 587
- Löffler's syndrome, fluctuating peripheral pulmonary infiltrates due to, 289
- Lung: See also Pulmonary
- changes in ankylosing spondylitis, 406
- changes in cardiopulmonary bypass, 154
- excised emphysematous, central airway resistance in, 603
- fluctuating peripheral infiltrates due to eosinophilic pneumonia, 289
- manifestations of yellow nail syndrome, 452
- percutaneous trephine biopsy of, 18
- postanesthetic suggestion in preventing postoperative complications, 240
- radiopaque fluorocarbon for studying structure and function, 64S
- radiotroutium in, abnormal deposition of, 190
- sequestration, developmental relationship between tracheal bronchus, bronchogenic cyst and, 253
- ultrastructural findings in idiopathic interstitial pneumonia, 86
- Lupus erythematosus, procainamide-induced, cardiac tamponade in, 685
- Lymph, cardiac, during extracorporeal circulation, 662
- Lymph node, intrafissural mid-zonal anthracotic, presenting as coin lesion, 501
- Lymphedema, pulmonary manifestations of yellow nail syndrome with, 452
- Magnesium: See Hypomagnesemia
- Master 2-step test: See Exercise test
- Mediastinal neoplasms, heterotopic bone marrow (myelolipoma), 514
- posterior, malignant granular-cell myoblastoma, 95
- Mediastinum, entomophthora phycomycotic infection in US, 392
- superior, widening to the right due to tortuous innominate artery, 181
- Meningitis, tuberculous, ethambutol in, 629
- Metastatic neoplasms, pleural effusion, presentation of prostatic cancer, 686
- Microscopy, electron, pure collagen plaques on diaphragm and pleura studied by, 357
- Mitral stenosis, atrial pacing in determining myocardial function in, 134
- Mitral valve, closed commissurotomy, complications, effect on survival, 24
- Mobile coronary care units, need questioned, 617
- Mortality, effect of hydrocortisone in acute myocardial infarctions, 483, 484, 486, 488
- Multiple sclerosis, possible causal relationship of alpha<sub>1</sub>-antitrypsin deficiency to, 307
- Muscular dystrophy, progressive, pulmonary function in, 41
- Myelolipoma, heterotopic bone marrow of mediastinum, 514
- Myoblastoma, malignant granular-cell, of posterior mediastinum, 95
- Myocardial infarction, acute, hydrocortisone in, 483, 484, 486, 488
- acute, intermittent heart block related to hypertension treatment in, 402
- acute, rupture and tamponade in, 4, 6, 10
- acute, sudden death in pre-hospital phase, 600, 617
- experimental, effects of glucagon on, 420
- experimental, with shock, coronary flow supplementation in, 365
- Friedreich's ataxia in child with, 644
- impending, emergency myocardial revascularization for, 479
- inferior, vectorcardiogram for distinguishing left anterior hemiblock from, 74
- inferior, vectorcardiogram in left posterior hemiblock with, 221
- lidocaine for arrhythmias in, how benign?, 599, 683
- preinfarction angina, evaluation, 312
- rupture of heart complicating, 104
- Myocardium, diseases, concordant right and left pressure and flow velocity alternans in, 183
- function in mitral stenosis, atrial pacing in determining, 134
- rupture with tamponade in infarction, 4, 6, 10
- Nails, pulmonary manifestations of yellow nail syndrome, 452
- Nasotracheal irrigation, closed system, 678
- Negroes, cancer of esophagus in Central Africa, 649
- Neoplasms: See also Bronchial neoplasms; Carcinoma; Esophageal neoplasms; Mediastinal neoplasms; Metastatic neoplasms; Pulmonary neoplasms
- prostatic, pleural effusion as unusual presentation of, 686
- Nixon, Richard M., dedication of Eisenhower Memorial Hospital, editors meet, Feb p12, 150
- Nocardia asteroides*, constrictive pericarditis due to, 79
- Occupational diseases, coal mine workers, 306
- detergent worker lung, 174
- Omentum, restoration of failing enlarged ischemic heart using grafts of, 267
- Ostia, acute iatrogenic injuries, coronary artery bypass for, 304
- Oxygen, regulation of utilization in emphysema, 48S, 49S, 51S, 53S, 56S, 60S
- transfer of CO<sub>2</sub> and, in placenta, 22S
- transport in emphysema, 12S, 12S, 13S, 14S, 15S, 16S
- Pacemaker, atrial pacing in determining myocardial function, 134
- catheter insertion, persistent left superior vena cava complicating, 396
- demand, apparent malfunction from ventricular extrasystoles, 426
- diaphragmatic origin of sound in, 195
- implantable, power sources for, 165
- laceration of tricuspid valve by wire of, 697
- manufacturer, 409, 411, 413
- premature beats from malfunction of, 408
- surveillance of, 203
- transvenous, hemidiaphragmatic contraction due to, 693
- transvenous, septic pulmonary emboli arising from, 503
- Para-aminosalicylic acid, isoniazid-streptomycin with, vs rifampicin-isoniazid in pulmonary tuberculosis, 533
- Parasystole, ventricular, with reentry in AV node, 415
- PAS: See Para-aminosalicylic acid
- PEEP: See Positive end-expiratory pressure
- Perfusion, correlation of ventilation aspects of chronic obstructive pulmonary disease, 459
- renal, nonpulsatile and pulsatile compared, 65
- Pericardial effusion, tamponade with, in procainamide-induced lupus erythematosus, 685
- Pericarditis, constrictive, associated with *Echinococcus* cyst, 194
- constrictive, due to *Nocardia asteroides*, 79

- pH: See Hydrogen ion concentration
- Phonocardiography, in diagnosis of tricuspid stenosis, 291
- picture of aortic insufficiency, 384
- postexercise and resting, effect of position on, 439
- Placenta, O<sub>2</sub> and CO<sub>2</sub> transfer in, 22S
- Pleura, biopsy, Balletero needle, reliable instrument for, 303
- pure collagen plaques on, 357
- traumatic subarachnoid-pleural fistula, 189
- Pleural effusion, in children with histiocytosis X, 33
- in yellow nail syndrome, 452
- prostatic cancer presenting with, 686
- secondary to pulmonary cryptococcosis, 296
- Pneumococcus, cell-wall deficient form of, 200
- Pneumoconiosis, disability of coal miners, 306
- Pneumocytes, granular, short-term effects of cardiopulmonary bypass on, 154
- Pneumomediastinum, in asthma, tracheotomy for, 691
- Pneumonia, cell-wall deficient form of pneumococcus in, 200
- idiopathic interstitial, ultrastructural findings in, 86
- streptococcal, glomerulonephritis following, 397
- transient eosinophilic, fluctuating peripheral pulmonary infiltrates due to, 289
- Pneumonitis, classic interstitial, with fibrosis, clinicopathologic syndrome, 213
- rheumatic, 298
- Pollen, cromolyn sodium inhibition of aerosol antigen challenge, 432
- Positive end-expiratory pressure, continuous, adaptor for, 309, 376
- in adult respiratory distress syndrome, 309
- Postoperative complications, pulmonary, postanesthetic suggestion in preventing, 240
- Posture, effect on resting and postexercise phonocardiogram, 439
- Potassium: See Hypokalemia
- Prednisone for cardiac tamponade in procainamide-induced lupus erythematosus, 685
- Procainamide, lupus erythematosus induced by, cardiac tamponade in, 685
- Prostatic neoplasms, pleural effusion, unusual presentation of, 686
- Pulmonary: See also Lung
- abscess, amebic, right lower lobe, in Nigerian, 379
- arteries, stenosis, evolution and hemodynamic effects, 70
- cavitation, spontaneously regressing carcinoma, 680
- circulation, effects of carotid sinus nerve stimulation on, 121
- coin lesion, focalized histoplasmosis, 361
- coin lesion, intrafissural mid-zonal anthracotic lymph node presenting as, 501
- Pulmonary diseases, alveolar sarcoidosis, fatigue, chest pain and testicular discomfort in, 77
- aspergillosis, primary, high fibrinolytic activity in aorta in, 394
- bronchiolar carcinoma mimics, 622
- chronic obstructive, correlation of ventilation and perfusion in, 459
- chronic obstructive, international symposium, Tel-Aviv, 151
- chronic obstructive, pressure vs volume cycled respirator in, 228
- cryptococcosis, pleural effusion secondary to, 296
- cystic, congenital diffuse bronchioalveolactasis, variant of, 507
- detergent worker, 174
- dirofilariasis, 51
- histoplasmosis, focalized, 361
- Hodgkin's disease, diagnosis by bronchial brush biopsy, 326
- primary amyloidosis, tracheobronchopathia osteoplastica end stage of?, 465
- Pulmonary embolism, acute, leftward shift of frontal plane QRS axis in, 443
- atypical transitional epithelial cells in, 198
- septic, arising from transvenous pacemaker, 503
- Pulmonary fibrosis, classic interstitial pneumonitis with, clinicopathologic syndrome, 213
- Pulmonary function, endogenous regulation of response to isoproterenol, 14
- following traumatic rupture of bronchus, 400
- in progressive muscular dystrophy, 41
- Pulmonary gas exchange, emphysema research, 46S, 47S, 51S
- Pulmonary hemorrhage, cessation with chronic dialysis in Goodpasture's syndrome, 85
- Pulmonary neoplasms, relationship between tumor doubling time and anatomoclinical features, 340
- solitary primary chemodectomas, 48
- spontaneously regressing carcinoma, 680
- Pulmonary sequestration, atypical intralobar, with drainage via hemiazygos system, 492
- Pulmonary vessels, unusual configuration due to sequestration with drainage via hemiazygos system, 492
- Pulmonic valve stenosis, combined aortic, with ostium primum atrial septal defect, 510
- Pulsus alternans, concordant right and left heart pressure and flow velocity alternans, 183
- Pyrazinamide, viomycin with, for pulmonary tuberculosis, hypocalcemia, hypomagnesemia and hypokalemia during, 496
- Quality of health care, cardiopulmonary frontiers, quality care via interactive TV, 204
- Quinidine, sinoatrial arrest due to lidocaine interaction with, 683
- Radiography: See Roentgenogram of month
- Radiostrontium, abnormal deposition in lungs, 190
- Red blood cells: See Erythrocytes
- Renal artery, phasic flow velocity during tachycardia, 381
- Renal blood flow, nonpulsatile and pulsatile perfusion compared, 65
- Respiration: See Ventilation
- Respirator, pressure vs. volume cycled, in chronic obstructive lung disease, 228
- Respiratory distress syndrome, adult, positive end-expiratory pressure in, 309
- Respiratory failure, due to metabolic alkalosis, 61S
- Respiratory therapy, allied health professions and, 1
- closed system nasotracheal or tracheostomy irrigation, 678
- positive end-expiratory pressure, continuous, adaptor for, 309, 376
- Rheumatic pneumonitis, 298
- Rib spreader, chapter in history of thoracic surgery, 469
- Rifampin in treatment of pulmonary tuberculosis (June special issue) 517-590
- Roentgenogram of month, fatigue, chest pain, and testicular discomfort, 77
- fluctuating, peripheral pulmonary infiltrates, 289
- right lower lobe abscess in Nigerian, 379
- spontaneously regressing cavitated pulmonary lesion, 680
- unusual configuration of pulmonary vascular pattern, 492
- widening of superior mediastinum to the right, 181
- Saphenous vein, aortocoronary bypass graft for preinfarction angina, 247
- coronary bypass for acute iatrogenic ostial injuries, 304
- Sarcoidosis, alveolar, chest pain, fatigue and left testicular discomfort in, 77
- cutaneous, features, management, 320
- Scientific Assembly, 3rd fall, 37th Annual Meeting, pictorial highlights, Jan pA-17+
- Seminar on Cardiovascular Surgery, 1971 reflections of 1970 statistics, subcommittee report, 475, 477, 479, 481
- Sequestration, pulmonary, atypical intralobar, with drainage via hemiazygos system, 492
- Shock, myocardial infarction with, coronary flow supplementation in, 365
- Sinoatrial arrest due to lidocaine interaction with quinidine, 683
- Sinoatrial node, trauma to, atrial arrhythmias related to, 310, 331
- Sinus node in chronic granulocytic leukemia, 494
- Sinus of Valsalva, ruptured aneurysms of, 640
- Situs inversus, mirror-image dextrocardia with tetralogy and, 92
- totalis, and Kartagener's syndrome in

- Japanese population, 56
- Skin, sarcoidosis, features, management, 320
- Smoke, inhalation, physiologic observations in, 62
- Soffer, Alfred, meets Pres. Nixon, Feb p12, 150
- Spondylitis, ankylosing, lung changes in, 406
- Staphylococcus aureus*, septal pulmonary emboli arising from transvenous pacemaker, 503
- Statistics, coronary disease surgery, 1971 reflection of 1970 statistics, 475, 477
- responsibilities of statistical reviewer, 486
- ventilatory capacity of healthy Japanese adults, 655
- Streptococcal pneumonia, glomerulonephritis after, 397
- Streptococcus faecalis*, acute bacterial endocarditis from, heart block in, 301
- Streptomycin, vs. rifampin in pulmonary tuberculosis, 533, 583
- Strontium, radioactive, abnormal deposition in lungs, 190
- Students, medical, discoveries in pulmonary and cardiovascular systems, 283
- Subaortic stenosis, membranous, in tuberculous sclerosis, 407
- Subarachnoid-pleural fistula, traumatic, 189
- Subcommittee on Surgery for Coronary Disease, 1971 reflections of 1970 statistics, 475, 477
- Suggestion, postanesthetic, in preventing postoperative pulmonary complications, 240
- Tachycardia, ventricular, coronary artery flow velocity curves during, 676
- ventricular, phasic renal artery flow velocity during, 381
- Tamponade, cardiac, in acute myocardial infarction, rupture with, 4, 6, 10
- cardiac, in procainamide induced lupus erythematosus, 685
- Television, interactive, quality health care via, 204
- Testis, left, pain, fatigue and chest pain, 77
- Tetralogy of Fallot, mirror-image dextrocardia with, 92
- Thoracic surgery, rib spreader, chapter in history of, 469
- Thromboembolism, cerebrovascular, in child with Friedreich's ataxia, 644
- following coronary arteriography, 235
- Thrombosis, late obstruction of tricuspid valve prosthesis, 613
- Trachea, replacement, longterm follow-up study of, 141
- Tracheal neoplasms, adenocystic and mucoepidermoid carcinoma, 145
- Tracheobronchopathia osteoplastica, end stage of primary lung amyloidosis?, 465
- Tracheostomy, endotracheal gentamicin in bronchial infections in patients with, 117
- irrigation, closed system, 678
- Tracheotomy, for subcutaneous emphysema and pneumomediastinum in asthma, 691
- Transplantation: See Heart transplantation
- Trauma, bifascicular intraventricular block after, 294
- chest injury, rupture of bronchus from, 81
- head, idiopathic alveolar hypoventilation related to, 187
- isolated tricuspid regurgitation from, prolonged survival, 689
- rupture of bronchus from, pulmonary function following, 400
- sinoatrial node, atrial arrhythmias related to, 310, 331
- subarachnoid-pleural fistula from, 189
- Trephine biopsy, percutaneous, of lung, 18
- Tricuspid stenosis, graphic diagnostic techniques, 291
- Tricuspid valve, annulus of, calcification, 307
- isolated regurgitation, prolonged survival without surgery, 689
- laceration by pacemaker wire, 697
- Starr-Edwards prosthesis, late thrombotic obstruction of, 613
- Tuberculosis, pulmonary, changing role of surgery in children for, 101
- pulmonary, hypocalcemia, hypomagnesemia and hypokalemia during therapy, 496
- pulmonary, rifampin in treatment (June special issue), 517-590
- undiagnosed, in general hospital, 447
- utilization of general hospitals for treatment, Committee report, 405
- Tuberculous meningitis, ethambutol in, 629
- Tuberculous sclerosis, membranous subvalvular aortic stenosis in, 407
- Urethritis, atypical transitional epithelial cells in pulmonary embolus originating from, 198
- Valsalva's sinus, ruptured aneurysms of, 640
- Vectorcardiography, in left posterior hemiblock with inferior wall myocardial infarction, 221
- left anterior hemiblock distinguished from inferior infarction and left axis deviation by, 74
- Vena cava, persistent left superior, complicating catheter insertion, 396
- right superior, mirror-image dextrocardia with tetralogy, 92
- Ventilation, capacity of healthy Japanese adults, statistics, 655
- correlation of perfusion aspects of chronic obstructive pulmonary disease, 459
- regulation of, in emphysema, 41S, 42S, 42S, 44S, 45S, 46S, 47S
- responses to inspired CO<sub>2</sub> in cystic fibrosis, 206
- Ventricle, alternate patterns of premature excitation during spontaneous atrial bigeminy, 499
- common, successful total correction of, 192
- extrasystoles, apparent malfunction of pacemaker from, 426
- left, function impairment, coronary artery surgery for, 482
- left, intermittent regional delay of activation, effect on ECG, 633
- tachycardia, coronary artery flow velocity curves during, 676
- Ventricular fibrillation, effect of right heart bypass on ventricular failure with, 159
- Viomycin, pyrazinamide with, for pulmonary tuberculosis, hypocalcemia, hypomagnesemia and hypokalemia during, 496
- Wenckebach phenomena, simultaneous sinoatrial and atrioventricular, 178
- Wounds and injuries: See Trauma





THE JOURNAL OF  
CIRCULATION, RESPIRATION  
AND RELATED SYSTEMS

# CHEST

VOLUME 62

JULY-DECEMBER, 1972

OFFICIAL PUBLICATION OF THE  
AMERICAN COLLEGE OF CHEST PHYSICIANS



# CHEST

**Alfred Soffer, M.D., Editor-in-Chief, Chicago**

## EDITORIAL BOARD

J. Arthur Myers, M.D., Editor Emeritus, Minneapolis

Harry Bass, M.D., Boston

Gerald L. Baum, M.D., Cleveland

Alberto Benchimol, M.D., Phoenix

Benjamin Burrows, M.D., Tucson

Richard A. Carleton, M.D., Chicago

Reuben M. Cherniack, M.D., Winnipeg

David W. Cugell, M.D., Chicago

Leonard S. Dreifus, M.D., Philadelphia

Maxwell Finland, M.D., Boston

Frank D. Gray, M.D., Philadelphia

David G. Greene, M.D., Buffalo

Dwight E. Harken, M.D., Boston

Donald C. Harrison, M.D., Stanford, California

H. F. Helmholz, Jr., M.D., Rochester, Minnesota

Peter T. Macklem, M.D., Montreal

Dean T. Mason, M.D., Davis, California

William F. Miller, M.D., Dallas

Kenneth M. Moser, M.D., San Diego

Peter V. Moulder, M.D., Philadelphia

Thomas L. Petty, M.D., Denver

Charles G. Roland, M.D., Rochester, Minnesota

Joseph Ross, M.D., Charleston, South Carolina

Irwin J. Schatz, M.D., Ann Arbor

David Chas. Schechter, M.D., New York City

Stanley S. Schor, Ph.D., Philadelphia

Gordon L. Snider, M.D., Boston

Edmund H. Sonnenblick, M.D., Boston

Harold B. Spitz, M.D., Cincinnati

Myron Stein, M.D., Pawtucket, Rhode Island

Morton E. Tavel, M.D., Indianapolis

John H. K. Vogel, M.D., Santa Barbara

Sylvan L. Weinberg, M.D., Dayton

## CORRESPONDING ASSOCIATE EDITORS

Mariano M. Alimurung, M.D., Philippines

José Ignacio Baldo, M.D., Venezuela

Bernard Bernard, M.D., France

Gustaf Morch, M.D., Sweden

Ite Boersma, M.D., The Netherlands

Anthony R. C. Dobell, M.D., Canada

Dirk Durrer, M.D., The Netherlands

Jethro Gough, M.D., Wales

Joachim Hein, M.D., Germany

Henry W. Herzog, M.D., Switzerland

Alberto Hurtado, M.D., Peru

H. W. Knipping, M.D., Germany

Morris J. Levy, M.D., Israel

Haurice Marchal, M.D., France

André Mayer, M.D., France

Papken S. Mugdichian, M.D., Lebanon

Jo Ono, M.D., Japan

Hector Orrego Puelma, M.D., Chile

Jeda M. Pausner, M.D., Israel

George E. Poellias, M.D., Greece

Vittorio Puddu, M.D., Italy

Shigeru Sakakibara, M.D., Japan

Demetrio Sodi-Pollares, M.D., Mexico

F. G. Uglov, M.D., USSR

A. A. Vishnevsky, M.D., USSR

Raman Viswanathan, M.D., India

Helge B. Wulff, M.D., Sweden

Sudolf Zenker, M.D., Germany

E. J. Zerbin, M.D., Brazil

## EXECUTIVE OFFICE

112 East Chestnut Street, Chicago, Illinois 60611 U.S.A.  
312-787-4833

Copyright 1972, by the American College of Chest Physicians

Published Monthly

Second Class Postage Paid at Chicago, Illinois and at  
additional mailing offices.

Annual Subscriptions: \$21.00 (U.S., Canada and Mexico)  
\$25.00 other countries.

CHANGE OF ADDRESS: Clip address portion and mail with  
new address to American College of Chest Physicians,  
112 East Chestnut Street, Chicago, Illinois 60611.

## National Advertising Representative

Howard L. Hagemann

Hagemann Associates

100 Wilmet Road

Deerfield, Illinois 60015

Sylvia J. Peterson, Executive Editor

Anne-Lise Hoffmann

Advertising Production Manager

Margaret Martinecz, Circulation Manager

# CONTENTS

Number 1, July 1972

Fatal Thromboembolism following Selective Arteriography		Electrocardiographic and Ultrastructural Cardiac Effects of Phenothiazine in Rabbits	
Tsung O. Cheng, Washington, D.C. ....	1	Ramon A. Guilan, Topeka; Robert L. Smalley, Emporia; and Samuel Zelman, Kansas City. <i>Editorial Expression</i> —	62
Sensitivity Training (Now Showing at Your Neighborhood Theater)		Carl Alexander, Minneapolis .....	62
LeRoy Misuraca, Whittier, California ...	2	Heart Sounds in Patients with Cardiac Pacemakers	
Introducing New Members of the Editorial Board .....	3	Tsung O. Cheng, Gungor Ertem and Zakaiddin Vera, Washington, D.C. ....	66
Lung Scan Utilization in the Diagnosis of Pulmonary Disease		Isoniazid: A Review with Emphasis on Adverse Effects	
Richard A. Krumholz, Gilbert M. Burnham and James F. DeLong, Kettering, Ohio. <i>Editorial Expression</i> — C. R. Woolf, Toronto, Canada .....	4	Allan L. Goldman and Sidney S. Braman, Washington, D.C. ....	71
Emphysema and Mitral Valve Disease		If Moses Could Speak	
Harry Bass, Boston .....	9	Tinsley R. Harrison, Birmingham .....	78
Arterial Carbon Dioxide Changes during Voluntary Hyperventilation in Chronic Obstructive Pulmonary Disease		The Antiquated University	
Roland H. Ingram, Jr., Robert B. Miller and Lucile A. Tate, Atlanta .....	14	Andre deVries, Tel-Aviv, Israel .....	83
Systemic Artery to Pulmonary Vessel Fistulas; Report of Two cases and a Review of the Literature		Electrocardiographic Changes Associated with Selective Aortic-Circumflex Coronary Artery Saphenous Bypass Graft Angiography	
Bruce H. Brundage; Alphonse C. Gomez; Melvin D. Cheitlin; and John T. Gmelich, San Francisco .....	19	Alberto Benchimol, Kenneth B. Desser and James Schumacher, Phoenix .....	87
Significance of Positive, Tall and Peaked Electrocardiographic T Waves in Early Diagnosis of Ischemic Heart Disease		Respiratory Distress with Normal Chest Roentgenograms	
Ali M. Handjani, Shiraz, Iran. <i>Editorial Expression</i> — George C. Griffith, La Canada, California .....	24	Thomas V. Thomas, Kansas City, Missouri	89
Ultrasound Determination of Left Ventricular Position for Volume Angiography		Electrocardiographic Recognition of Anterior Infarction in Left Anterior Fascicular Block: A Diagnostic Challenge	
Angelo Branzi; James Mailhot; Edwin L. Alderman; and Donald C. Harrison, Palo Alto .....	29	H. E. Kulbertus, Liege, Belgium .....	91
Irreversible Pulmonary Hypertension after Correction of Tetralogy of Fallot		Impact of the Respiratory Intensive Care Unit on Survival of Patients with Acute Respiratory Failure	
Mauricio L. Roisman, Barry M. Beller and James D. O'Keefe, San Antonio .....	34	Robert M. Rogers, Clare Weiler, R.N. and Bruce Ruppenthal, Philadelphia .....	94
Aortic Arch Anomalies: Simplified Classification		An Improved Snare Catheter for Retrieving Embolized Fragments of Polyethylene Tubing	
Bernardo Vidne; Izchak Garti; Vladimiro Rosenberg; and Morris J. Levy, Petah-Tiqva, Israel. <i>Editorial Expression</i> — Roque Pifarre, Maywood, Illinois .....	39	Albert L. Hyman, New Orleans .....	98
Aberrant Right Subclavian Artery Aneurysm; A Rare Cause of a Superior Mediastinal Tumor		Congenital Absence of the Pulmonary Valve with Atrial Septal Defect Surgically Corrected with Aortic Homograft	
Richard M. Engelman and Manuel Madayag, New York City .....	45	Pipit Chiemmongkoltip; Robert L. Replogle; L. Gonzalez-Lavin; and Rene A. Arcilla, Chicago .....	100
Necrosis of the Stomach Secondary to Ingestion of Corrosive Agents		Roentgen Manifestations of Pulmonary Blastoma	
Lowell Livingston Davis, John Raffensperger and Gertrude Martha Novak, Chicago ..	48	Thomas T. Thompson, Durham .....	104
Foreign Body of the Heart Complicated by Papillary Muscle Necrosis Located by Echocardiography		Catheter Perforation of the Pulmonary Artery with Resultant Cardiac Tamponade	
Richard J. Kones, New York City; and John H. Phillips, New Orleans .....	52	Edward I. Greenbaum and Harold S. Marcus, Los Angeles .....	105
ACCP State and Regional Chapter Programs ..	58	Pulmonary Varicosity Associated with Other Congenital Abnormalities	
ACCP Announces Professors in Residence ..	60	E. Papamichael; D. Ikkos; K. Alkalais; and J. Yannacopoulos, Piraeus, Greece ...	107
		Potential Hazard of Two Functioning Pacemakers	
		Lawrence Gould and Robert F. Gomprecht, Bronx .....	109
		Abnormal Lung Perfusion in a Patient with Bronchial Adenoma	
		Tapan K. Chaudhuri; Tuhin K. Chaudhuri; Rolf L. Schapiro; and James H. Christie, Iowa City .....	110

## Number 1, July 1972 (Continued)

- A Method of Epicardial Pacing without Thoracotomy; Treatment of Heart Block in Patients with Tricuspid Valve Prosthesis  
Samir K. Bhattacharya, Maganlal Sutaria and Edward E. Braunstein,  
Roslyn, New York ..... 112
- Pseudoaneurysm of the Left Ventricle following Mitral Valve Replacement  
Richard D. Spellberg and Ronald J. O'Reilly, Long Beach, California ..... 115
- Spontaneous Pneumopericardium in Acute Asthma  
Tony M. Toledo; William L. Moore; Daniel A. Nash; and Robert L. North, Houston ..... 118
- College News .. A-17, A-22, A-26, A-27, A-29, A-30

## Number 2, August 1972

- The Scientist and His Institution  
Alfred Soffer, Chicago ..... 121
- Introduction  
O. Theron Clagett, Rochester, Minnesota ..... 123
- Transbronchoscopic Lung Biopsy for Diffuse Pulmonary Diseases: Technique and Results in 450 Cases  
Howard A. Andersen and Robert S. Fontana, Rochester, Minnesota ..... 125
- Kartagener's Syndrome  
R. Drew Miller and Matthew B. Divertie, Rochester, Minnesota ..... 130
- Considerations on Surgical Treatment of Peptic Esophageal Stenosis  
Arne Malm, Malmö, Sweden ..... 137
- Fundoplication for Gastroesophageal Reflux  
F. Henry Ellis, Jr., Mamigon Garabedian and James A. Gregg, Boston ..... 142
- Washout of <sup>133</sup>Xenon Gas from the Lungs: Comparison with Nitrogen Washout  
Michel Guisan; Gennaro M. Tisi; William L. Ashburn; and Kenneth M. Moser, La Jolla ..... 146
- Vagally Induced Second Degree A-V Block Mobitz Type I, and the Hyporeactive SA Node  
Miguel Gambetta, Pablo Denes and Roderick W. Childers, Chicago.  
*Editorial Expression* — George C. Griffith, La Canada, California ..... 152
- Atrioventricular Block in Acute Myocardial Infarction  
Arthur B. Simon, William E. Steinke, and John J. Curry, Bethesda. *Editorial Expression* — Kenneth M. Rosen, Chicago ..... 156
- Oxygen Pneumonitis in Man; Light- and Electron-Microscopic Morphometric Studies  
Yusuf Kapanci; Ronald Tosco; Jacques Eggermann; Geneva, Switzerland and Victor E. Gould, Seattle ..... 162
- Hypersensitivity Pneumonitis Due to Exposure to Budgerigars  
W. P. Warren, Toronto, Ontario, Canada.  
*Editorial Expression* — Jordan N. Fink, Milwaukee ..... 170
- Comparison of Left Ventricular and Pulmonary Arterial Injection Sites in Determination of Cardiac Output by Indicator Dilution Technique  
Richard L. Shepherd, Lawrence M. Higgs, and D. Luke Glancy, Bethesda. *Editorial Expression* — S. H. Rahimtoola, Chicago .. 175
- Lymphangitic Carcinomatosis of the Lungs: The Clinical Significance of Its Roentgenologic Classification  
Sze-Piao Yang and Chi-chung Lin, Taipei, Taiwan ..... 179
- Effectiveness of Small, Increasing Doses of Intramuscular Reserpine in Hypertension  
Jacob I. Haft; Prem K. Gupta; Murray Weinstock; Ramiro DeGuia; and Alberto Fano, Bronx, New York. *Editorial Expression* — Frank Finnerty, Washington, D.C. .... 188
- Diagnostic Significance of Arterial-Alveolar Nitrogen Tension Difference in Assessment of Ventilation-Perfusion Ratio Inequality  
Tetsuro Yokoyama, Tokyo, Japan ..... 191
- The Pulmonary Edema of Heroin Toxicity — An Example of the Stiff Lung Syndrome  
Whitney W. Addington; David W. Cugell; Thomas R. Westerhoff; Barry Shapiro; Roy T. Smith, Chicago ..... 199
- Role of Pulmonary Angiography in Carcinoma of the Lung  
William G. Greenough, Dallas ..... 206
- To Fill a Void  
Alan K. Pierce, Dallas ..... 211
- Echocardiogram in Atrial Septal Defect  
Abdul J. Tajik, Gerald T. Gau and Thomas T. Schattenberg, Rochester, Minnesota .. 213
- Displacement of the Mediastinum  
Ilhan Vidinel, Izmir, Turkey ..... 215
- President's Panel on Heart Disease ..... 217
- ACCP Invited to Comment on Cardiopulmonary Legislation for 1972 ..... 219
- Concealed Conduction: An Indication for Temporary Demand Pacing  
L. P. McLaurin and John F. Moran, Travis AFB, California. *Editorial Expression* — George C. Griffith, La Canada, California ..... 220
- Chronic Recurrent Tracheoesophageal Fistula  
Joseph C. Kiser, Theodore A. Peterson and Frank E. Johnson, Minneapolis ..... 222
- Postinfarction Ventricular Septal Defect and the Eisenmenger Syndrome  
Edwin L. Rothfeld, I. Richard Zucker and Victor Parsonnet, Newark ..... 224
- Silent Mitral Regurgitation Complicating Silent Myocardial Infarction: Hemodynamic and Morphologic Documentation  
M. Wayne Falcone, James A. Ronan, Jr., and William C. Roberts, Washington, D.C. .. 226



## Number 2, August 1972 (Continued)

- Lymphangitic Carcinomatosis of the Lungs with Normal Appearing Chest X-ray Films  
Israel Alkalay, Charles W. Fairfax, II, and John C. Bullard, New Bedford ..... 229
- Complete Heart Block in Myocarditis — Recovery with a Pacemaker  
Lawrence Gould, Ruth Diaz and Robert Gomprecht, Bronx, New York ... 230
- Pneumomediastinum Resulting from Performing Valsalva Maneuvers during Marijuana Smoking  
W. Eugene Miller, Ralph E. Spiekerman and Norman G. Hepper, Rochester, Minnesota 233
- Primary Fibrosarcoma of the Heart  
Piero Baldelli; Donatella De Angeli; Alberto Dolara; Luigi Magi Diligenti; Francesco Marchi; and Leonard Salvatore, Florence, Italy ..... 234
- Bifocal Pacemakers  
Seymour Furman, Bronx. *Response* — E. J. Meyers, New Bedford ..... 237
- Clinical Conference in Pulmonary Disease  
W. Gerald Rainer and Theodore R. Sadler, Jr., Denver. *Response* — Richard B. Byrd, David W. Cugell, Douglas R. Gracey, Chicago... 238
- The Priority is Wenckebach's  
David Scherf, New York City. *Response* — William J. Mandel, Los Angeles ..... 239
- Percutaneous Trephine Biopsy of the Lung  
Frederick L. Jones, Jr., Danville, Pennsylvania. *Response* — Thomas A. Neff, Denver .... 239
- Hypertrophic Subaortic Stenosis with Ostium Secundum Atrial Septal Defect  
Abdul J. Tajik and Emilio R. Giuliani, Rochester, Minnesota ..... 240
- Bookshelf ..... 22, 26, 27

## Number 2, August 1972 Supplement

- Introduction  
Robert M. Rogers, Oklahoma City ..... 1S
- Considerations in Constructing a Respiratory Intensive Care Unit  
Robert M. Rogers, Oklahoma City ..... 2S
- The Role of the Community Hospital in Acute Respiratory Failure Management  
Bernard E. Levine; Howard M. Kravetz; Murry Spotnitz; and Robert E. Westfall, Phoenix ..... 10S
- Nursing in a Respiratory Intensive Care Unit  
Margaret Fuhs, R.N., M.S.N.; Mary Rieser, R.N., M.S.; and Delores Brisbon, R.N., B.S., Philadelphia ..... 14S
- Specialized Nurses and Therapists in Respiratory Care  
Louise M. Nett, R.N., A.R.I.T.; Ann Riutort, R.N.; and Judy Tietz, R.N., Denver .. 19S
- Analysis of Problems Related to Cuffs on Intratracheal Tubes  
Joel D. Cooper and Hermes C. Grillo, Boston ..... 21S
- Physiologic Consequences and Bodily Adaptations to Hyper- and Hypocapnia  
Asghar Rastegar and Samuel O. Thier, Philadelphia ..... 28S
- Mixed Metabolic and Respiratory Acid-base Disturbances: Diagnosis and Treatment  
Donna Kern McCurdy, Philadelphia .... 35S
- The Management of Arterial Hypoxia in Chronic Obstructive Pulmonary Disease  
John F. H. Keighley and John C. Mithoefer, Syracuse ..... 45S
- Postoperative Respiratory Management  
John H. Lecky and Alan J. Ominsky, Philadelphia ..... 50S
- After-Crisis Care in Chronic Airway Obstruction  
Thomas L. Petty and Louise M. Nett, R.N., A.R.I.T., Denver ..... 58S

## Number 3, September 1972

- When Is a "College" a College?  
Alfred Soffer, Chicago ..... 241
- Diagnostic Significance of Serum Precipitins in Hypersensitivity Pneumonitis  
John Salvaggio, New Orleans ..... 242
- Interstitial Rheumatoid Lung Disease  
Michael S. Popper, Maurice L. Bogdonoff and Richard L. Hughes, Chicago ..... 243
- Carcinoma of the Lung and Anthracosilicosis  
Domenico Scarano, A. Moneim A. Fadali and Gerald M. Lemole, Philadelphia. *Editorial Expression* — Richard A. DeRemme, Rochester, Minnesota ..... 251

(Continued)

# Number 3, September 1972 (Continued)

Rapid Rate-dependent Ventricular Ectopy; Adverse Responses to Atropine-induced Rate Increase Douglas P. Zipes and Suzanne B. Knoebel, Indianapolis ..... 255	Echocardiographic "Pseudo-IHSS" Pattern in Atrial Septal Defect Abdul J. Tajik, Gerald T. Gau and Thomas T. Schattenberg, Rochester, Minnesota .. 324
Diazepam as an Adjunct to Bronchoscopy Roger R. Ecker, W. L. Sugg and William J. Rea, Dallas ..... 259	15th Aspen Emphysema Conference to be Published in CHEST ..... 326
Unexplained Fever and Chills Associated with Myocardial Infarction Mahfouz El Shahawy and Nancy C. Flowers, Augusta, Georgia ..... 263	The Physician, the Nurse and the Therapist—An ACCP Team Approach to Smoking Cessation ..... 328
Improved Results in 336 Patients with the Isolated Mitral Beall Valve Replacement Henry T. Nichols; Javier Fernandez; Dryden Morse; and Alden S. Gooch, Brown Mills, New Jersey and Philadelphia .... 266	Benign Osteolytic Lesions with Rib Fractures Norman Cooper and Jack E. Arrants, Charleston, South Carolina ..... 330
The Bronchodilator Effect of Salbutamol Administered by IPPB to Patients with Asthma; A Controlled Comparison with Isoproterenol and Placebo Shimon A. Spitzer, Zwi Goldschmidt and Chagay Dubrawsky, Tel Aviv, Israel .... 273	Bronchopulmonary Sequestration and Pulmonary Tuberculosis Edwin N. Schachter and Ronald J. Karpick, St. Albans, New York ..... 331
Clinical Survey of Pigeon Breeders Jordan N. Fink; Donald P. Schlueter; Abe J. Sosman; George F. Unger; Joseph J. Barboriak; Alfred A. Rimm; John A. Arkins; and Kulwant S. Dhaliwal, Milwaukee .... 277	Serial Cardiac Catheterizations in Infundibular and Pulmonic Stenosis Lawrence Gould; Franlina Umali; Mohammad Zahir; Robert F. Gomprecht; and Robert Frater, Bronx, New York ... 333
Bronchiectasis following Ammonia Burns of the Respiratory Tract; Review of Two Cases Irving Kass; Noe Zamel; Charles A. Dobry; and Michael Holzer, Omaha ..... 282	Mucoepidermoid Tumor of the Trachea C. P. Trentini and B. Palmieri, Modena, Italy ..... 336
Temporary Transvenous Pacemaker Monitoring Using Simultaneous Endocardial and Surface Electrocardiograms Fredric A. Siegel, Irene Hsu and Dwight D. Borth, Washington, D.C. .... 286	An Interesting and Unusual Cause of Hemoptysis Ajit Singh, Balwant Singh and Pirthipal Singh, Amritsar, India ..... 339
Progressive Infarction in Anomalous Origin of Left Coronary Artery from Pulmonary Artery: An Indication for Early Surgery Iraj Aryanpur, Tehran, Iran ..... 292	Occurrence of Hernia of Morgagni with Filial Cervical Lung Hernia: A Hereditary Defect of the Cervical Mesenchyme? William J. Catalona, Wayne L. Crowder and Paul B. Chretien, Bethesda ..... 340
Primary Tumors of the Mediastinum Sanford P. Benjamin; Lawrence J. McCormack; Donald B. Effler; and Lawrence K. Groves, Cleveland ..... 297	Pulmonary Resection in Hemophilia Stewart Pursel and Sherman A. Kay, Detroit ..... 342
Hydrogen and Ascorbate Dilution Curves Tsung O. Cheng, Washington, D.C. .... 304	Traumatic Ventricular Septal Defect with Aorto-right Ventricular Fistula and Aortic Regurgitation; Surgical Considerations Richard F. Heller; Constantine J. Tatooles; Kenneth M. Rosen; and S. H. Rahimtoola, Chicago ..... 343
Resuscitation Experiments and Breathing Apparatus of Alexander Graham Bell Alfred R. Henderson, Washington, D.C. ... 311	Catheter Entrapment in a Chiari Network Involving an Atrial Septal Defect Arnold Goldschlager; Nora Goldschlager; Hollister Brewster; and Jerold Kaplan, San Francisco ..... 345
A Cardiac Mass in a Young Woman Arthur Dodek, Portland, Oregon ..... 317	Ventricular Demand Pacemaker Inhibition by An Atrial Fixed Rate Pacemaker Ira Kassanoff, Panagiotis N. Symbas and Nanette K. Wenger, Atlanta ..... 346
Isolated Electrical Alternans of the T Wave Hein J. J. Wellens, Amsterdam, The Netherlands ..... 319	Simultaneous Excision of Bilateral Neurogenic Tumors of the Mediastinum Raymond G. Armstrong; Evan F. Lindberg; George Troxler; William Stanford; and Byron N. Dooley, Lackland AFB, Texas .. 348
The Atrial Contribution to the Left Ventricular Apexcardiogram Alberto Benchimol, Jaco Fishenfeld and Kenneth B. Desser, Phoenix ..... 322	Autumn in Denver—The Annual Meeting David P. Boyd, Boston ..... 350
	Honor Lecturers ..... 351
	Overview of the Meeting ..... 352
	Technical Exhibitors ..... 353
	Abstracts ..... 355

## Number 4, October 1972

Profile of the Chest Physician; Implications of a National Survey Alfred Soffer, Chicago .....	383	Complication of the Jackson Esophageal Bougie Alan B. Gazzaniga and Roger A. Christian, Irvine, California. <i>Editorial Expression</i> — Arthur M. Olsen, Rochester, Minnesota ..	452
The Granular Pneumocyte and Pulmonary Fibrosis — Are They Related? Albert H. Niden, Philadelphia .....	384	Mysterious Sudden Death Thomas N. James, Birmingham, Alabama ..	454
World Heart Day at the Smithsonian David P. Boyd, Boston .....	385	A Unified Concept of the Pathophysiology of Myocardial Infarction and Sudden Death R. S. Eliot and J. W. Holsinger, Jr., Omaha .....	469
Reflections on Pulmonary Embolism Park W. Willis, III, Ann Arbor .....	386	Serial Bronchography following Pulmonary Autotransplantation Stanley S. Siegelman, Shashi B. P. Sinha and Frank J. Veith, New York City .....	475
Factors Contributing to the Incorrect Diagnosis of Pulmonary Embolic Disease Baruch Modan, Ezra Sharon, Navah Jelin, Tel Hashomer, Israel .....	388	Reliability of Central Venous Pressure as a Measure of Changes in Left Sided Intracardiac Pressures Paul K. Hanashiro and Max Harry Weil, Los Angeles .....	479
Bronchodilator Therapy: Comparison of Acute Response to Three Methods of Administration Edward H. Chester, Imre Racz; Peter B. Barlow; and Gerald L. Baum, Cleveland ..	394	Lung Biopsy in the Acutely Ill — When and How? Co-chairmen: Richard L. Hughes, Maurice L. Bogdonoff, L. Penfield Faber. Participants: John Dainauskas; William H. Knospe; Stuart Levin; John E. Martin; Guy R. Matthew; Dave Monson; Michael Ramsey, Chicago .....	484
Granular Pneumocyte and Pulmonary Fibrosis Fumi Watanabe, Marcia M. Mitchell and Attilio D. Renzetti, Jr., Salt Lake City ....	400	Diagnosis of Transient Bundle Branch Block using Timed Vectorcardiography Alberto Benchimol and Kenneth B. Desser, Phoenix .....	491
Bidirectional Conduction through the A-V Junction Allan H. Harris and Harman A. Shecket, Cleveland .....	403	Hypercorticosteroidism with Pulmonary and Bone Lesions Robert R. Lukin, Cincinnati .....	493
Hemodynamic Response of Oral Long-Acting Nitrates: Evidence of Gastrointestinal Absorption Travis Winsor, Harry Kaye and Barbara Mills, Los Angeles .....	407	The Professional Role of the Chest Physician Alfred Soffer, Chicago .....	495
Physiologic Features of Upper Airway Obstruction Marvin A. Sackner, Miami Beach. <i>Editorial Expression</i> — R. Drew Miller, Rochester, Minnesota .....	414	Extensive Multisegmental Bronchiectasis Presenting as a Transient Parahilar Coin Lesion Philip M. Rogers, Stephen M. Ayres and Charles A. Ribaud, New York City ....	499
Lymphoid Interstitial Pneumonia Gerald M. Halprin, Jose Ramirez-R and Philip C. Pratt, Durham .....	418	Type I Truncus Arteriosus in an Adult Jacob R. Morgan, Donald J. Kearney and Arthur D. Hagan, San Diego .....	501
Total Cardiopulmonary Support with Disposable Membrane Oxygenator during Aortocoronary Artery-Vein Graft Operations Robert G. Carlson; Arnold J. Lande; Louis W. Ivey; Peter J. Starek; J. Richard Rees; V. A. Subramanian; Joseph Twichell; James Baxter; Jack H. Bloch; and C. Walton Lillehei, New York City. <i>Editorial Expression</i> — Earle B. Mahoney, Rochester, New York .....	424	Continuous Murmur as a Sequel of Augmented Collateral Circulation in Suppurative Lung Disease Solomon Victor; C. Lakshmikanthan; Gowri Shankar; P. G. Parameswaran; A. Sreenivasan and C. S. Sadasivan, Madras, India .....	504
Predicting Survival following Surgery for Bronchogenic Carcinoma N. H. Slack, Alice Chamberlain and I. D. J. Bross, Buffalo .....	433	Recurrent Ventricular Tachycardia Successfully Treated by Excision of Ventricular Aneurysm Ashok Wardekar; Benjamin Son; C. Dale Gosaynie; and Bernard Bercu, Eloise, Michigan .....	505
Impedance Pneumography; Comparison between Chest Impedance Changes and Respiratory Volumes in 11 Healthy Volunteers Ake Grenvik; Stanley Ballou; Edward McGinley; J. Eugene Millen; Wils L. Cooley; and Peter Safar, Pittsburgh .....	439	Vocal Cord Paralysis Associated with Pulmonary Emboli Robert E. Albertini, Danville, Pa. ....	508
Direct Extension of Cancer between Pulmonary Veins and the Left Atrium Wilson I. B. Onuigbo, Enugu, Nigeria ...	444	Meandering Right Pulmonary Vein Simulating the Scimitar Syndrome Lawrence R. Goodman, Ahmed Jamshidi and Florencio A. Hipona, Boston .....	510
Distribution of Bronchial Arteries in the Human Lung K. K. Pump, Vancouver, Canada .....	447		



## Number 4, October 1972 (Continued)

- Isolated Lobular Pulmonary Artery Atresia with Systemic Collaterals in Tetralogy of Fallot  
Robert Klint; Alexis Hartmann, Jr.; Nickolauss Schad; Clarence Weldon; and David Goldring, St. Louis ..... 512
- Lack of Breathlessness during Apnea in a Patient with High Spinal Cord Transection  
Aguiles J. Roncoroni, Buenos Aires, Argentina ..... 514
- Benign Lymphoid Hyperplasia (Castleman Tumor) Mimicking a Posterior Mediastinal Neurogenic Tumor  
Gordon L. Culver and Byung-Koo Choi, Buffalo ..... 516
- Variable Perfusion of the Lung in Bronchogenic Carcinoma as Measured by 133 Xenon  
Scott R. Inkley and William J. MacIntyre, Cleveland ..... 517
- Adenocarcinoma Arising in a Ghon Complex and Presenting with Massive Pericardial Effusion  
Roger R. McFadden and Peter J. Dawson, Portland, Oregon ..... 520
- Bronchobiliary Fistula Secondary to Amebic Liver Abscess  
D. C. Roy, P. Ravindran and R. Padmanabhan, Varanasi, India ..... 523
- The Bookshelf ..... 13, 26
- College News ..... 18, 22

## Number 5, November 1972

- Evaluation for Pulmonary Resection  
Lois T. Ellison, Augusta, Georgia ..... 525
- Physiology of Anomalous Connections in Pre-excitation  
M. Irene Ferrer, New York City ..... 525
- Have Problem — Will Travel  
Morton E. Tavel, Indianapolis ..... 526
- Sequential Estimation of Plasma Catecholamines in Exercise-Induced Asthma  
John Griffiths; Fred Y. Leung; S. Grzybowski; and Moira M. W. Chan-Yeung, Vancouver, Canada ..... 527
- The Use of Expiratory Forced Flows for Determining Response to Bronchodilator Therapy  
Samuel F. Boushy, Houston ..... 534
- Electrocardiographic Signs of Infarction Masked by Coexistent Contralateral Hemiblock  
Robert D. Leachman, Paolo Angelini and Roberto Lufschanowski, Houston. *Editorial Expression* — Melvyn Rubenfire, Detroit ..... 542
- Transmural Myocardial Infarction with Arteriographically Normal Appearing Coronary Arteries  
Kent H. Potts, Paul D. Stein and Paul C. Houk, Oklahoma City ..... 549
- 2-0 Interval as an Indicator of Left Atrial Pressure  
Wayne Gray and Hubert Bell, Kansas City Kansas. *Editorial Expression* — J. M. Pouget, Chicago ..... 553
- Identification and Characteristics of the Common Alpha<sub>1</sub>-Antitrypsin Phenotypes  
Jack Lieberman; Laima Gaidulis; Bonna Garoutte; and Charles Mittman, Duarte, California ..... 557
- The Use of the Mantoux Test in Identifying High Risk Groups in a Mental Institution  
Gerard Wijsmuller and Harold Goldman, Rockville, Maryland ..... 565
- Assessment of Operative Risk of Pneumonectomy  
Joseph Reichel, New York City ..... 570
- Hyperalimentation in Pulmonary Surgery  
William J. Rea; Roger R. Ecker; Jon W. Eberle; and W. L. Sugg, Dallas ..... 577
- Pre-excitation with Normal PR Intervals: A Case Secondary to Slow Kent Bundle Conduction  
Kenneth M. Rosen, Francisco Lopez-Arostegui and Maurice Pouget, Chicago ..... 581
- Pulmonary Pseudofibrosis in Cyanotic Heart Disease  
Lulu M. Haroutunian, Catherine A. Neill and John P. Dorst, Baltimore ..... 587
- The Role of Cytology in the Evaluation of Pericardial Effusions  
Robert E. Zipf, Jr. and William W. Johnston, Durham ..... 593
- Use of a Range-gated, Pulsed Ultrasonic Doppler Technique for Continuous Measurement of Velocity of the Posterior Heart Wall  
John B. Kostis; Evangelos Mavrogeorgis; Allan Slater and Samuel Bellet, Philadelphia ..... 597
- Coronary Artery Disease, Left-to-Right Shunt and Congestive Heart Failure; Problems of Management  
Clinical Evaluations by Dwight E. Harken, Boston and Joseph K. Perloff, Philadelphia. Case summary by Jamie J. Jacobs, Indianapolis ..... 605
- A Method of Augmenting Coronary Perfusion during Internal Cardiac Massage  
Farouk A. Molokhia; Ronald B. Ponn; William J. Robinson; Panayiotis J. Asimacopoulos; and John C. Norman, Boston ..... 610
- Midsystolic Carotid Pulse Wave Retraction in Subjects with Prolapsed Mitral Valve Leaflets  
Alberto Benchimol, Charles L. Harris and Kenneth B. Dessler, Phoenix ..... 614
- A Crisis in the Delivery of Care to the Critically Ill and Injured  
Max Harry Weil; Herbert Shubin; E. C. Boycks; Norman Palley; J. H. Carrington; and Arleen Jacobs, Los Angeles ..... 616
- Air-fluid Levels in the Left Lower Thorax following a Fall  
Howard R. Wilkov, Cincinnati ..... 621



## Number 5, November 1972 (Continued)

- Pulmonary Edema after Direct Current Countershock  
M. Gomaa; M. K. A. Dayem; A. Eissa; and M. Ateyya, Cairo, Egypt ..... 623
- Alveolar Cell Carcinoma Associated with Rheumatoid Nodule  
Randolph C. Blodgett, Jr., Peter J. Cera, Jr. and Frederick L. Jones, Jr., Danville, Pa. . . 625
- Bullet Embolus of the Heart  
Ralph J. Lewis and Philip J. Kunderman, New Brunswick, New Jersey ..... 627
- Primary Melanoma of the Lung  
Carlos F. Taboada; James D. McMurray; Robert A. Jordan; and William D. Seybold, Houston ..... 629
- Endobronchial Hamartomas  
Justo L. Sibala, Kansas City, Kansas ..... 631
- Traumatic Asphyxia  
J. D. Moore, John H. Mayer and Otto Gago, Ann Arbor ..... 634
- Alveolitis during Procarbazine, Vincristine and Cyclophosphamide Therapy  
V. Alton Dohner, Harry P. Ward and Ray E. Standord, Denver ..... 636
- Myxosarcoma of the Pulmonary Valve  
Michael M. DiGilio; Hwa J. Lee; Constantine J. Tatoes; Kenneth M. Rosen; and Shahbudin H. Rahimtoola, Chicago .. 639
- Tracheal Obstruction Secondary to Histoplasma Mediastinal Granuloma  
Martha F. Greenwood and Phillip Holland, Lexington, Kentucky ..... 642
- Intracavitary Cardiac Thromboembolism: A Complication of External Cardiac Massage  
Mayer Milstoc and Adolf R. Berger, Welfare Island, New York ..... 645
- Prolonged Use of Intra-aortic Phase Shift Balloon Pumping in Cardiogenic Shock  
Gerald A. Wolff; Roy O. Kamada; John A. Collins; Kent N. Kreisman; and John I. Keith, St. Louis ..... 646
- Endobronchial Hodgkin's Disease Presenting as a Primary Pulmonary Lesion  
Charles W. Seward and Shabbir H. Safdar, St. Louis ..... 649
- Cardiac Resuscitation in Patients with Prosthetic Cardiac Valves  
Thomas V. Thomas, Kansas City, Missouri 652
- Asthma "Cure" — Over the Counter  
Paul E. Foldes, Cincinnati ..... 653
- Removal of a Knotted Subclavian Semi-flating Pacing Wire  
George H. Sabel and David N. Bramwit, Westwood, New Jersey ..... 654

## Number 5, November 1972 Supplement

- The Problem Oriented Record in Critical Care Medicine  
Laurence B. Gardner, Philadelphia ..... 635
- Applications of Bronchofiberscopy  
Marvin A. Sackner, Adam Wanner and Jose Landa, Miami Beach ..... 705
- Oxygen Transport and 2,3-Diphosphoglycerate (DPG)  
Robert A. Klocke, Buffalo ..... 795
- Positive End-expiratory Pressure (PEEP); Indications and Physiologic Considerations  
Harvey J. Sugerman, Robert M. Rogers and Leonard D. Miller, Philadelphia .... 865
- Role of Bronchopulmonary Lavage in the Treatment of Respiratory Failure: A Review  
Robert M. Rogers, Milton S. Braunstein and John F. Shuman, Philadelphia ..... 955
- The Role of the Artificial Lung in the Treatment of Respiratory Insufficiency: A Perspective  
E. Converse Peirce, II, New York City .. 1075
- The Influence of Intrathoracic Pressure on Fluid and Electrolyte Balance  
John Terrance Davis, Philadelphia ..... 1185

## Number 6, December 1972

- Intermittent Rate-Related Left Anterior Hemiblock  
Ray Pryor, Denver ..... 655
- Teleradiology: Evolution Through Bias to Reality  
W. Scott Andrus and Kenneth T. Bird, Boston ..... 655
- Mysteries of Sudden Death and Myocardial Infarction  
Robert S. Eliot, Omaha ..... 657
- Physician Assistant  
William F. Miller, Dallas ..... 658
- Alterations in Airway Dynamics following Inhalation of Ultrasonic Mist  
Suresh K. Malik and Daniel E. Jenkins, Houston. *Editorial Expression* — Frederick W. Cheney, Jr., Seattle ..... 660

(Continued)

# Number 6, December 1972 (Continued)

- Persistent Post-embolic Pulmonary Hypertension  
Neil D. B. de Soyza and Marvin L. Murphy,  
Little Rock. *Editorial Expression* —  
George C. Griffith, La Canada, Calif. . . . 665
- Pulmonary Artery Aneurysm Associated with  
Mitral Valve Disease: a Grave Prognostic Sign  
Hassan Najafi, Chicago . . . . . 669
- Phase-3 and Phase-4 Intermittent Left Anterior  
Hemiblock; Report of First Case in the Literature  
Marcelo V. Elizari, Julio O. Lazzari and  
Mauricio B. Rosenbaum, Buenos Aires,  
Argentina . . . . . 673
- ST Segment Depression with Near-Maximal  
Exercise: Its Modification by Physical Conditioning  
Albert A. Kattus; Charles R. Jorgensen;  
Ralph E. Worden; and Anthony B. Alvaro,  
Los Angeles . . . . . 678
- Use of Percutaneously Inserted Venous  
Catheters in Coronary Care Units  
Michael H. Sketch; Michelle Cale;  
Syed M. Mohiuddin; and Richard W. Booth,  
Omaha . . . . . 684
- Longterm Support with a Membrane Lung  
Allen J. Pois; Leslie Katzman; Carl B. Weston;  
Sanford Mackman; and Lawrence I. Gottlieb,  
Madison . . . . . 690
- Prediction of Pulmonary Function Loss due to  
Pneumectomy Using 133 Xe-Radiospirometry  
Sven Kristersson, Sven-Eric Lindell and  
Lawe Svanberg, Malmo, Sweden . . . . . 694
- Quantitative Study of Parenchyma and Small  
Conductive Airways in Chronic Nonspecific  
Lung Disease; Use of Histologic Stereology  
and Bronchial Casts  
Alain Depierre; Jean Bignon; Anne Lebeau;  
and Georges Brouet, Paris, France . . . . . 699
- Oxyhemoglobin Affinity in Bronchial Asthma:  
Chronic Stable State, Acute, and Status  
Asthmaticus  
Earle B. Weiss and Jane F. Desforges,  
Boston . . . . . 709
- Percutaneous Needle Biopsy of the Lung  
with a New Disposable Needle  
V. C. Vitums, Portland, Oregon . . . . . 717
- Systolic Time Intervals; Relation to Atrial  
Contraction and Leg Elevation in Patients with  
Transvenous Pacemakers and Fixed Rate Pacing  
Suphachai Chaithiraphan and  
Emanuel Goldberg, New York City . . . . . 720
- Esophagopericardial Fistula Presenting  
as Cardiac Tamponade  
Thomas G. Welch; Thomas R. White;  
Richard P. Lewis; Pablo I. Altieri;  
John S. Vasko; and James W. Kilman,  
Columbus . . . . . 728
- Health Care Training of the Physician Assistant:  
A Proposed Cardiopulmonary Program  
William F. Miller, Dallas . . . . . 732
- Alpha and Omega in Pulmonary Structure  
Matthew B. Divertie, Rochester, Minn. . . . 737
- The Apexcardiogram in Patients with the  
Syndrome of Midsystolic Click and Late  
Systolic Murmur  
Kenneth B. Desser and Alberto Benchimol,  
Phoenix . . . . . 739
- Asymptomatic Right Lower Thoracic Nodule  
Ralph L. Epstein; Roger V. Hall; James T.  
Gillespie; and Keith K. Hunt, Jr., Tacoma . 741
- Ventricular Fusion Beats Simulating  
Bilateral Bundle Branch Block  
Kenneth S. Gimbel, Cincinnati . . . . . 743
- Remission of Symptoms in Mitral Stenosis  
due to Complete Heart Block  
Brian M. Kennelly, Dudley W. Burton and  
Velva Schrire, Cape Town, South Africa . . 746
- Pulmonary Lesions in Rheumatoid Arthritis  
P. J. Schneider and G. E. Ehrlich,  
Philadelphia . . . . . 747
- Isolated Tricuspid Bacterial Endocarditis  
Resulting in Severe Tricuspid Insufficiency  
D. M. Bramwell-Jones; W. A. Pocock;  
D. J. Salant; and J. B. Barlow,  
Johannesburg, South Africa . . . . . 749
- Solitary Pulmonary Nodule due to  
Phycomycosis (Mucormycosis)  
Adelito M. Gale and William P. Kleitsch,  
Phoenix . . . . . 752
- Congenital Superior Vena Cava Aneurysm  
with Complications Caused by  
Infectious Mononucleosis  
Charles R. Ream, Princeton, New Jersey, and  
Anthony Giardina, Elizabeth, New Jersey . 755
- Aortic Valve Replacement for  
Candida Endocarditis  
Andrew T. McRae, James W. Pate and  
Robert L. Richardson, Memphis . . . . . 757
- Diagnosis of a Case of Embryonal Carcinoma  
by Bronchial Biopsy  
Basil Varkey and Margaret G. Heckman,  
Wood, Wisconsin . . . . . 758
- Bronchial Carcinoid: A Malignant Tumor  
Marian Wisniewski and Alfred O. Fayemi,  
New York City . . . . . 760
- Alveolar Soft-part Sarcoma  
James C. McGlamory and James O. Harris,  
San Diego . . . . . 762
- Quinidine Syncope; Report of a Case  
Successfully Treated with Lidocaine  
Elieser Kaplinsky; Joseph H. Yahini;  
Jacob Barzilai and Henry N. Neufeld,  
Tel Hashomer, Israel . . . . . 764
- Author Index, Vol. 62 (July-December, 1972) . 767
- Subject Index, Vol. 62 (July-December, 1972) . 770

# AUTHOR INDEX

Volume 62, July-December, 1972

- Addington, Whitney W., 199  
 Albertini, Robert E., 508  
 Alderman, Edwin L., 29  
 Alexander, Carl, 62  
 Alkalais, K., 107  
 Alkalay, Israel, 229  
 Altieri, Pablo I., 728  
 Alvaro, Anthony B., 678  
 Andersen, Howard A., 125  
 Andrus, W. Scott, 655  
 Angelini, Paolo, 542  
 Arcilla, Rene A., 100  
 Arkins, John A., 277  
 Arrants, Jack E., 330  
 Aryanpur, Iraj, 292  
 Ashburn, William L., 146  
 Asimacopoulos, P. J., 610  
 Ateyya, M., 623  
 Ayres, Stephen M., 499
- Baldelli, Piero, 234  
 Ballou, Stanley, 439  
 Barboriak, Joseph J., 277  
 Barlow, J. B., 749  
 Barlow, Peter B., 394  
 Barzilai, Jacob, 764  
 Bass, Harry, 9  
 Baum, Gerald L., 394  
 Baxter, James, 424  
 Bell, Hubert, 553  
 Beller, Barry M., 34  
 Bellet, Samuel, 597  
 Benchimol, Alberto, 87, 322, 491, 614, 739  
 Benjamin, Sanford P., 297  
 Bercu, Bernard, 505  
 Berger, Adolph R., 645  
 Bhattacharya, Samir K., 112  
 Bignon, Jean, 699  
 Bird, Kenneth T., 655  
 Bloch, Jack H., 424  
 Blodgett, Randolph C. Jr., 625  
 Bogdonoff, Maurice L., 243, 484  
 Booth, Richard W., 684  
 Borth, Dwight D., 286  
 Boushy, Samuel F., 534  
 Boycks, E. C., 616  
 Boyd, David P., 350, 385  
 Braman, Sidney S., 71  
 Bramwell-Jones, D. M., 749  
 Bramwit, David N., 654  
 Branzi, Angelo, 29  
 Braunstein, Edward E., 112  
 Braunstein, Milton S., 955  
 Brewster, Hollister, 345  
 Brishon, Delores, 145  
 Bross, I. D. J., 433
- Brouet, Georges, 699  
 Brundage, Bruce H., 19  
 Bullard, John C., 229  
 Burton, Dudley W., 746  
 Byrd, Richard B., 238
- Cale, Michelle, 684  
 Carlson, Robert G., 424  
 Carrington, J. H., 616  
 Catalona, William J., 340  
 Cera, Peter J. Jr., 625  
 Chaithiraphan, Suphachai, 720  
 Chamberlain, Alice, 433  
 Chan-Yeung, Moira M. W., 527  
 Chaudhuri, Tapan K., 110  
 Cheitlin, Melvin D., 19  
 Cheney, Frederick W., 660  
 Cheng, Tsung O., 1, 66, 304  
 Chester, Edward H., 394  
 Chiemmongkoltip, Pipit, 100  
 Childers, Roderick W., 152  
 Choi, Byung-Koo, 515  
 Chretien, Paul B., 340  
 Christian, Roger A., 452  
 Christie, James H., 110  
 Clagett, O. Theron, 123  
 Collins, John A., 646  
 Cooley, Wils L., 439  
 Cooper, Joel D., 215  
 Cooper, Norman, 330  
 Crowder, Wayne L., 340  
 Cugell, David W., 199, 238  
 Culver, Gordon L., 515  
 Curry, John J., 156
- Dainauskas, John, 484  
 Davis, John Terrance, 1185  
 Davis, Lowell Livingston, 48  
 Dawson, Peter J., 520  
 Dayem, M. K. A., 623  
 De Angeli, Donatella, 234  
 DeGuia, Ramiro, 188  
 Denes, Pablo, 152  
 Depierre, Alain, 699  
 DeRemee, Richard A., 251  
 Desforges, Jane F., 709  
 deSoyza, Neil D. B., 665  
 Desser, Kenneth B., 87, 322, 491, 614, 739  
 deVries, Andre, 83  
 Dhaliwal, Kulwant S., 277  
 Diaz, Ruth, 230  
 DiGilio, Michael M., 639  
 Diligenti, Luigi Magi, 234  
 Divertie, Matthew B., 130, 737  
 Dobry, Charles A., 282  
 Dodek, Arthur, 317
- Dohner, V. Alton, 636  
 Dolara, Alberto, 234  
 Dorst, John P., 587  
 Dubrawsky, Chagay, 273
- Eberle, Jon W., 577  
 Ecker, Roger R., 259, 577  
 Effler, Donald B., 297  
 Eggermann, Jacques, 162  
 Ehrlich, G. E., 747  
 Elissa, A., 623  
 Eliot, R. S., 469, 657  
 Elizari, Marcelo V., 673  
 Ellis, F. Henry Jr., 142  
 Ellison, Lois T., 525  
 El Shahawy, Mahfouz, 263  
 Engelman, Richard M., 45  
 Epstein, Ralph L., 741  
 Ertem, Gungor, 66
- Faber, L. Penfield, 484  
 Fadali, A. Moneim A., 251  
 Fairfax, Charles W. II, 229  
 Falcone, M. Wayne, 226  
 Fano, Alberto, 188  
 Fayemi, Alfred O., 760  
 Fernandez, Javier, 266  
 Ferrer, M. Irene, 525  
 Fink, Jordan N., 170, 277  
 Frank Finnerty, 188  
 Fishenfeld, Jaco, 322  
 Flowers, Nancy C., 263  
 Foldes, Paul E., 653  
 Fontana, Robert S., 125  
 Frater, Robert, 333  
 Fuhs, Margaret, 145  
 Furman, Seymour, 237
- Gago, Otto, 634  
 Gaidulis, Laima, 557  
 Gale, Adelito M., 752  
 Gambetta, Miguel, 152  
 Garabedian, Mamigon, 142  
 Gardner, Laurence B., 635  
 Garoutte, Bonna, 557  
 Garti, Izchak, 39  
 Gau, Gerald T., 213, 324  
 Gazzaniga, Alan B., 452  
 Giardina, Anthony, 755  
 Gillespie, James T., 741  
 Gimbel, Kenneth S., 743  
 Guilian, Emilio R., 240  
 Glancy, D. Luke, 175  
 Gmelich, John T., 19  
 Goldberg, Emanuel, 720  
 Goldman, Allan L., 71  
 Goldman, Harold, 565

- Goldring, David, 512  
 Goldschlager, Arnold, 345  
 Goldschlager, Nora, 345  
 Goldschmidt, Zwi, 273  
 Gomaa, M., 623  
 Gomez, Alphonse C., 19  
 Gomprecht, Robert F., 109, 230, 333  
 Gonzalez-Lavin, L., 100  
 Gooch, Alden S., 266  
 Goodman, Lawrence R., 510  
 Gosaynie, C. Dale, 505  
 Gottlieb, Lawrence I., 690  
 Gould, Lawrence, 109, 230, 333  
 Gould, Victor E., 162  
 Gracey, Douglas R., 238  
 Gray, Wayne, 553  
 Greenbaum, Edward I., 105  
 Greenough, William G., 206  
 Greenwood, Martha F., 642  
 Gregg, James A., 142  
 Grenvik, Ake, 439  
 Griffith, George C., 24, 220, 152, 665  
 Griffiths, John, 527  
 Grillo, Hermes C., 215  
 Groves, Lawrence K., 297  
 Grzbowski, S., 527  
 Guilan, Ramon A., 62  
 Guisan, Michel, 146  
 Gupta, Prem K., 188
- Haft, Jacob I., 188  
 Hagan, Arthur D., 501  
 Hall, Roger V., 741  
 Halprin, Gerald M., 418  
 Hanashiro, Paul K., 479  
 Handjani, Ali M., 24  
 Harken, Dwight E., 605  
 Haroutunian, Lulu M., 587  
 Harris, Allan H., 403  
 Harris, Charles L., 614  
 Harris, James O., 762  
 Harrison, Donald C., 29  
 Harrison, Tinsley R., 78  
 Hartmann, Alexis Jr., 512  
 Heckman, Margaret G., 758  
 Heller, Richard F., 343  
 Henderson, Alfred R., 311  
 Hepper, Norman G., 233  
 Higgs, Lawrence M., 175  
 Hipona, Florencio A., 510  
 Holland, Phillip, 642  
 Holsinger, J. W., 469  
 Holzer, Michael, 282  
 Houk, Paul C., 549  
 Hsu, Irene, 286  
 Hughes, Richard L., 243, 484  
 Hunt, Keith K. Jr., 741  
 Hyman, Albert L., 98
- Ikko, D., 107  
 Ingram, Roland H. Jr., 14  
 Inkle, Scott R., 517  
 Ivey, Louis W., 424
- Jacobs, Arleen, 616  
 Jacobs, Jamie J., 605
- James, Thomas N., 454  
 Jamshidi, Ahmed, 510  
 Jelin, Navah, 388  
 Jenkins, Daniel E., 660  
 Johnson, Frank E., 222  
 Johnston, William W., 593  
 Jones, Frederick L. Jr., 239, 625  
 Jordan, Robert A., 629  
 Jorgensen, Charles R., 678
- Kamada, Roy O., 646  
 Kapanci, Yusuf, 162  
 Kaplan, Jerold, 345  
 Kaplinsky, Elieser, 764  
 Karpick, Ronald J., 331  
 Kass, Irving, 282  
 Kassanoff, Ira, 346  
 Kattus, Albert A., 678  
 Katzman, Leslie, 690  
 Kay, Sherman A., 342  
 Kaye, Harry, 407  
 Kearney, Donald J., 501  
 Keighley, John F. H., 455  
 Keith, John I., 646  
 Kennelly, Brian M., 746  
 Kilman, James W., 728  
 Kiser, Joseph C., 222  
 Kleitsch, William P., 752  
 Klint, Robert, 512  
 Klocke, Robert A., 795  
 Knoebel, Suzanne B., 255  
 Knospe, William H., 484  
 Kones, Richard J., 52  
 Kostis, John B., 597  
 Kravetz, Howard M., 105  
 Kreisman, Kent N., 646  
 Kristersson, Sven, 694  
 Kulbertus, H. E., 91  
 Kunderman, Philip J., 627
- Lakshmikanthan, C., 504  
 Landa, Jose, 705  
 Lande, Arnold J., 424  
 Lazzari, Julio O., 673  
 Leachman, Robert D., 542  
 Lebeau, Anne, 699  
 Lecky, John H., 505  
 Lee, Hwa J., 639  
 Lemole, Gerald M., 251  
 Leung, Fred Y., 527  
 Levin, Stuart, 484  
 Levine, Bernard E., 105  
 Levy, Morris J., 39  
 Lewis, Ralph J., 627  
 Lewis, Richard P., 728  
 Lieberman, Jack, 557  
 Lillehei, C. Walton, 424  
 Lin, Chi-Chung, 179  
 Lindell, Sven-Eric, 694  
 Lopez-Arostegui, F., 581  
 Lufschanowski, Roberto, 542  
 Lukin, Robert R., 493
- MacIntyre, William J., 517  
 Mackman, Sanford, 690  
 Madayag, Manuel, 45
- Mahoney, Earle B., 424  
 Mailhot, James, 29  
 Malik, Suresh K., 660  
 Malm, Arne, 137  
 Mandel, William J., 239  
 Marchi, Francesco, 234  
 Marcus, Harold S., 105  
 Martin, John E., 484  
 Matthew, Guy R., 484  
 Mavrogeorgis, E., 597  
 Mayer, John H., 634  
 McCormack, Lawrence J., 297  
 McCurdy, Donna Kern, 355  
 McFadden, Roger R., 520  
 McGinley, Edward, 439  
 McGlamory, James C., 762  
 McLaurin, L. P., 220  
 McMurray, James D., 629  
 McRae, Andrew T., 757  
 Meyers, E. J., 237  
 Millen, J. Eugene, 439  
 Miller, Leonard D., 865  
 Miller, R. Drew, 130, 414  
 Miller, Robert B., 14  
 Miller, W. Eugene, 233  
 Miller, William F., 732  
 Mills, Barbara, 407  
 Milstoc, Mayer, 645  
 Misuraca, LeRoy, 2  
 Mitchell, Marcia M., 400  
 Mithoefer, John C., 455  
 Mittman, Charles, 557  
 Modan, Baruch, 388  
 Mohiuddin, Syed M., 684  
 Molokhia, Farouk A., 610  
 Monson, Dave, 484  
 Moore, J. D., 634  
 Moore, William L., 118  
 Moran, John F., 220  
 Morgan, Jacob R., 501  
 Morse, Dryden, 266  
 Moser, Kenneth M., 146  
 Murphy, Marvin L., 665
- Najafi, Hassan, 669  
 Nash, Daniel A., 118  
 Neff, Thomas A., 239  
 Neill, Catherine A., 587  
 Nett, Louise M., 195, 585  
 Neufeld, Henry N., 764  
 Nichols, Henry T., 266  
 Niden, Albert H., 384  
 Norman, John C., 610  
 North, Robert L., 118  
 Novak, Gertrude Martha, 48
- O'Keefe, James D., 34  
 Olsen, Arthur M., 452  
 Ominsky, Alan J., 505  
 Onuigbo, Wilson I. B., 444  
 O'Reilly, Ronald J., 115
- Padmanabhan, R., 523  
 Palley, Norman, 616  
 Palmieri, B., 336  
 Papamichael, E., 107



- Parameswaran, P. G., 504  
 Parsonnet, Victor, 224  
 Pate, James W., 757  
 Peirce, E. Converse II, 107S  
 Perloff, Joseph K., 605  
 Peterson, Theodore A., 222  
 Petty, Thomas L., 94, 58S  
 Phillips, John H., 52  
 Pierce, Alan K., 211  
 Pifarre, Roque, 39  
 Pocock, W. A., 749  
 Pois, Allen J., 690  
 Ponn, Ronald B., 610  
 Popper, Michael S., 243  
 Potts, Kent H., 549  
 Pouget, J. Maurice, 581  
 Pratt, Philip C., 418  
 Pryor, Ray, 655  
 Pump, K. K., 447  
 Pursel, Stewart, 342  
  
 Racz, Imre, 394  
 Raffensperger, John, 48  
 Rahimtoola, S. H., 175, 343, 639  
 Rainer, W. Gerald, 238  
 Ramirez-R., Jose, 418  
 Ramsey, Michael, 484  
 Rastegar, Asghar, 28S  
 Ravindran, P., 523  
 Rea, William J., 259, 577  
 Ream, Charles R., 755  
 Rees, Richard J., 424  
 Reichel, Joseph, 570  
 Renzetti, Attilio D., 400  
 Replogle, Robert L., 100  
 Ribaud, Charles A., 499  
 Richardson, Robert L., 757  
 Rieser, Mary, 14S  
 Rimm, Alfred, 277  
 Riutort, Ann, 19S  
 Roberts, William C., 226  
 Robinson, William J., 610  
 Rogers, Philip M., 499  
 Rogers, Robert M., 1S, 2S, 86S, 94, 95S  
 Roisman, Mauricio L., 34  
 Ronan, James A., 226  
 Roncoroni, Aquiles J., 514  
 Rosen, Kenneth M., 156, 343, 581, 639  
 Rosenbaum, Mauricio B., 673  
 Rosenberg, Vladimiro, 39  
 Rothfeld, Edwin L., 224  
 Roy, D. C., 523  
 Ruppenthal, Bruce, 94  
  
 Sabel, George H., 654  
 Sackner, Marvin A., 414, 70S  
 Sadasivan, C. S., 504  
 Sadler, Theodore R. Jr., 238  
 Safar, Peter, 439  
 Safdar, Shabbir H., 649  
  
 Salant, D. J., 749  
 Salvaggio, John, 242  
 Leonard Salvatore, 234  
 Scarano, Domenico, 251  
 Schachter, Edwin H., 331  
 Schad, Nicholas, 512  
 Schapiro, Rolf L., 110  
 Schattenberg, Thomas T., 213, 324  
 Scherf, David, 239  
 Schneider, P. Jr., 747  
 Schlueter, Donald P., 277  
 Schrire, Velva, 746  
 Schumacher, James, 87  
 Seward, Charles W., 649  
 Seybold, William D., 629  
 Shankar, Gowri, 504  
 Shapiro, Barry, 199  
 Sharon, Ezra, 388  
 Shecket, Harman A., 403  
 Shepherd, Richard L., 175  
 Shubin, Herbert, 616  
 Shuman, John F., 95S  
 Sibala, Justo L., 631  
 Siegel, Fredric A., 286  
 Siegelman, Stanley S., 475  
 Simon, Arthur B., 156  
 Singh, Ajit, 339  
 Singh, Balwant, 339  
 Singh, Pirthipal, 339  
 Sinha, Shashi B. P., 475  
 Sketch, Michael H., 684  
 Slack, N. H., 433  
 Slater, Allan, 597  
 Smalley, Robert L., 62  
 Smith, Roy T., 199  
 Soffer, Alfred, 121, 241, 383, 495  
 Son, Benjamin, 505  
 Soeman, Abe J., 277  
 Spellberg, Richard D., 115  
 Spiekerman, Ralph E., 233  
 Spitzer, Shimon A., 273  
 Spotnitz, Murray, 10S  
 Sreenivasan, A., 504  
 Standord, Ray E., 636  
 Starek, Peter J., 424  
 Stein, Paul D., 549  
 Steinke, William E., 156  
 Subramanian, V. A., 424  
 Sugerman, Harvey J., 86S  
 Sugg, W. L., 259, 577  
 Sutaria, Maganlal, 112  
 Svanberg, Lawe, 694  
 Symbas, Panagiotis N., 346  
  
 Taboada, Carlos F., 629  
 Tajik, Abdul J., 213, 240, 324  
 Tate, Lucile A., 14  
 Tatoes, Constantine J., 343, 639  
 Tavel, Morton, 526, 605  
 Thier, Samuel O., 28S  
  
 Thomas, Thomas V., 89, 652  
 Thompson, Thomas T., 104  
 Tietz, Judy, 19S  
 Tisi, Gennaro M., 146  
 Toledo, Tony M., 118  
 Tosco, Ronald, 162  
 Trentini, G. P., 336  
 Twichell, Joseph, 424  
  
 Umali, Franlina, 333  
 Unger, George, 277  
  
 Varkey, Basil, 758  
 Vasco, John S., 728  
 Veith, Frank J., 475  
 Zakaaddin Vera, 66  
 Victor, Solomon, 504  
 Vidinel, Ilhan, 215  
 Vidne, Bernardo, 39  
 Vitums, V. C., 717  
 Vogel, John H. K., 304  
  
 Wanner, Adam, 70S  
 Ward, Harry P., 636  
 Wardekar, Ashok, 505  
 Warren, W. P., 170  
 Watanabe, Fumi, 400  
 Weil, Max Harry, 479, 616  
 Weiler, Clare, 94  
 Weinstock, Murray, 188  
 Weiss, Earle B., 709  
 Welch, Thomas G., 728  
 Weldon, Clarence, 512  
 Wellens, Hein J. J., 319  
 Wenger, Nanette K., 346  
 Westfall, Robert E., 10S  
 Westerhoff, Thomas R., 199  
 Weston, Carl B., 690  
 White, Thomas R., 728  
 Wijsmuller, Gerard, 565  
 Wilkov, Howard R., 621  
 Willis, Park W. III, 386  
 Winsor, Travis, 407  
 Wisniewski, Marian, 760  
 Woolf, C. R., 4  
 Wolff, Gerand A., 646  
 Worden, Ralph E., 678  
  
 Yahini, Joseph H., 764  
 Yang, Sze-Piao, 179  
 Yannacopoulos, 107  
 Yokoyama, Tetsuro, 190  
  
 Zahir, Mohammad, 333  
 Zamel, Noe, 282  
 Zelman, Samuel, 62  
 Zipes, Douglas P., 255  
 Zpif, Robert E. Jr., 593  
 Zucker, I. Richard, 224

# SUBJECT INDEX

## Volume 62, July–December 1972

- Abnormalities, congenital, with pulmonary varicosity, 107
- Accidents, crisis in delivery of care to injured, 616
- Acid-base equilibrium, effect of intrathoracic pressure on, 118S
- mixed metabolic and respiratory disturbances, 35S
- respiratory, adaptations to hyper- and hypocapnia, 28S
- ACTH: See Corticotropin
- Adenocarcinoma, arising in Ghon complex, massive pericardial effusion in, 520
- Adenoma, bronchial, abnormal lung perfusion in, 110
- bronchial, produced by ACTH, with osteoblastic metastases, 491
- Adrenal corticosteroids for hypersensitivity pneumonitis, 170
- Adrenal, hypercorticosteroidism with pulmonary and bone lesions, 491
- Airway, dynamics, alterations after inhalation of ultrasonic mist, 660
- small conductive, in chronic nonspecific lung disease, 699
- Airway obstruction, chronic, after-crisis care, 58S
- upper, physiologic features, 414
- Alpha<sub>1</sub>-antitrypsin, phenotypes, identification and characteristics, 557
- Alveolitis during procarbazine, vincristine and cyclophosphamide, 636
- Amebic liver abscess, bronchobiliary fistula secondary to, 523
- Ammonia burns of respiratory tract, bronchiectasis after, 282
- Aneurysm: See also Pseudoaneurysm
- congenital superior vena cava, and mononucleosis, 755
- pulmonary artery, and mitral valve disease, grave prognosis, 669
- subclavian artery, aberrant right, cause of superior mediastinal tumor, 45
- ventricular, tachycardia cured by excision of, 505
- Angina pectoris, hemodynamic response of oral long-acting nitrates, 407
- Angiography: See also Coronary arteriography; Pulmonary angiography
- volume, ultrasound determination of left ventricular position for, 29
- Anthracosilicosis, carcinoma of lung and, 251
- Antibody, precipitating, against pigeon antigens, 242, 277
- Anticoagulants, in prevention of persistent post-embolic pulmonary hypertension, 665
- Antitrypsin: See Alpha<sub>1</sub>-antitrypsin
- Aortic arch, anomalies, simplified classification, surgery in, 39
- Aortic regurgitation, traumatic ventricular septal defect with aorto-right ventricular fistula and, 343
- Aortic stenosis: See Subaortic stenosis
- Aortic valve, homograft for absence of pulmonary valve with atrial septal defect, 100
- prosthesis, for Candida endocarditis, 757
- Apexcardiography, in syndrome of mid-systolic click and late systolic murmur, 739
- left ventricular, atrial contribution to, 322
- midsystolic carotid pulse wave retraction, 614
- Apnea, impedance pneumography in detection, 439
- lack of breathlessness during, after high spinal cord transection, 514
- Arteries, bronchial, distribution in lung, 447
- systemic, fistulas to pulmonary vessel, 19
- Arteriography: See Coronary arteriography
- Arthritis, rheumatoid, alveolar cell carcinoma with rheumatoid nodule complicating, 625
- rheumatoid, pulmonary lesions in, 747
- Ascorbate and hydrogen dilution curves in detection of intracardiac shunt and valvular regurgitation, 304
- Asphyxia, traumatic, 634
- Asthma, acute, spontaneous pneumopericardium in, 118
- assessment of ventilation-perfusion ratio inequality in, 191
- bronchial, oxyhemoglobin affinity in, 709
- bronchodilator effect of Salbutamol in, 273
- "cure," over the counter, 653
- exercise-induced, plasma catecholamines in, 527
- Atrial fibrillation, pulmonary edema after DC countershock for, 623
- Atrial septal defect, absence of pulmonary valve with, aortic homograft for, 100
- catheter entrapment in Chiari network involving, 345
- echocardiogram in, 213
- echocardiographic "pseudo-IHSS" pattern in, 324
- ostium secundum, hypertrophic subaortic stenosis with, letter, 240
- Atrial systole, contribution to left ventricular apexcardiogram, 322
- Atrioventricular junction: See A-V junction
- Atrium, contraction, systolic time intervals, relation to leg elevation and, 720
- left, 2-0 interval as indicator of pressure in, 553
- Atropine, rapid rate-dependent ventricular ectopy induced by, 255
- A-V junction, bidirectional conduction through, in sinus rhythm with PVC, 403
- Balloon pumping, intra-aortic shift, in cardiogenic shock, 646
- Bell, Alexander Graham, resuscitation experiments and apparatus of, 311
- Biopsy, bronchial, diagnosis of embryonal carcinoma by, 758
- lung, in acutely ill, when and how? 484
- lung, percutaneous, disposable needle for, 717
- lung, percutaneous trephine, 239
- lung, transbronchoscopic, for diffuse pulmonary disease, 125
- Blastoma, pulmonary, roentgen manifestations, 104
- Bone neoplasms, osteoblastic metastases from ACTH producing bronchial adenoma, 491
- Bookshelf, Aug p22+, Oct p 13+
- Bradycardia, sinus, potential hazard of 2 functioning pacemakers, 109
- Breathlessness, lack of, during apnea after high spinal cord transection, 514
- Bronchi, biopsy, embryonal carcinoma diagnosis by, 758
- endobronchial Hodgkin's disease presenting as primary pulmonary lesion, 649
- traumatic rupture of left main bronchus, displacement of mediastinum due to, 215
- Bronchial casts, study of parenchyma and small conductive airways in chronic lung disease, 699
- Bronchial neoplasms: See also Adenoma, bronchial; Carcinoma, bronchogenic
- hamartomas, 631
- malignant carcinoid, 760
- Bronchiectasis, ammonia burns of respiratory tract, causes, 282
- multisegmental, presenting as parahilar coin lesion, 499
- murmur as sequel of augmented collateral circulation in, 504
- Bronchitis, assessment of ventilation-perfusion ratio inequality in, 191
- Bronchodilator effect of Salbutamol in asthma, 273
- Bronchodilators, expiratory forced flows for determining response to, 534
- 3 methods of administration compared, 394
- Bronchofiberscopy, applications of, 70S
- Bronchography, serial, after pulmonary autotransplantation, 475
- Bronchopulmonary lavage in respiratory failure, 95S
- Bronchopulmonary sequestration and pulmonary tuberculosis, 331
- Bronchoscopy, diazepam as adjunct to, 259
- Budgerigars, hypersensitivity pneumonitis due to, 170

- Bundle branch block, bilateral, ventricular fusion beats simulating, 743  
transient, diagnosis using timed vectorcardiography, 493
- Burns, ammonia, of respiratory tract, bronchiectasis after, 282
- Cancer: See Neoplasms
- Candida endocarditis, aortic valve replacement for, 757
- Carbon dioxide, adaptations to hyper- and hypocapnia, 285  
arterial, changes during hyperventilation in chronic obstructive pulmonary disease, 14
- Carcinoid, bronchial, malignant, 760
- Carcinoma, alveolar cell, with rheumatoid nodule, 625  
embryonal, diagnosis by bronchial biopsy, 758  
lung, and anthracosilicosis, 251  
lung, pulmonary angiography in, 206
- Carcinoma, bronchogenic, predicting survival after surgery for, 433  
right main bronchus, respiratory distress with normal chest x-rays in, 89  
variable perfusion of lung measured by  $^{133}\text{xenon}$  in, 517
- Carcinomatosis, lymphangitic, of lungs, normal chest x-rays in, 229  
lymphangitic, of lungs, roentgen classification, 179
- Cardiac: See also Heart
- Cardiac disease, congenital, type I truncus arteriosus in adult, 501  
cyanotic, and pulmonary pseudofibrosis, 587  
echinococcus cyst, roentgen study, 317  
President's Panel on Heart Disease, 217
- Cardiac disease, ischemic: See Angina pectoris; Coronary disease; Myocardial infarction
- Cardiac massage, external, intracavitary cardiac thromboembolism after, 645  
internal, augmenting coronary perfusion during, 610
- Cardiac neoplasms, direct extension between pulmonary veins and left atrium, 444  
myxosarcoma of pulmonary valve, 639  
primary fibrosarcoma, 234
- Cardiac output, left ventricular vs pulmonary arterial injection site to determine, 175
- Cardiac thromboembolism, intracavitary, after external cardiac massage, 645
- Cardiogenic shock, intra-aortic phase shift balloon pumping in, 646
- Cardiopulmonary training program for physician assistant, 658, 732
- Cardiorespiratory intensive care: See also Coronary care units; Respiratory intensive care  
problem oriented record in critical care medicine, 635  
symposium, Aug suppl, pp 1S-62S; Nov suppl, pp 63S-125S
- Cardiovascular techniques, hydrogen and ascorbate dilution curves, 304
- Carotid pulse wave, midsystolic retraction with prolapsed mitral valve leaflets, 614
- Castleman's tumor: See Lymphoid hyperplasia, benign
- Catecholamines, plasma, in exercise-induced asthma, 527
- Catheter, entrapment in Chiari network, 345  
percutaneous venous, use in coronary care units, 684  
perforation of pulmonary artery by, cardiac tamponade after, 105  
snare, for retrieving embolized fragments, 98
- Catheterization, serial cardiac, in infundibular and pulmonic stenosis, 333
- Central venous pressure, as measure of changes in left sided intracardiac pressures, 479
- Chest, editorial board, photos of new members, 3
- Chest, impedance changes and respiratory volumes compared during impedance pneumography, 439  
professional role of chest physician, 495  
profile of chest physician, implications of national survey, 383
- Chest roentgenograms, normal, in lymphangitic carcinomatosis of lungs, 229  
normal, respiratory distress in bronchial carcinoma with, 89
- Chiari network, catheter entrapment in, 345
- Chills, unexplained, in myocardial infarction, 263
- Cineangiography, type I truncus arteriosus in adult confirmed by, 501
- Clinical conference on pulmonary disease, asymptomatic pulmonary nodule, letters, 238  
edema of heroin toxicity, 199  
lung biopsy in acutely ill, 484
- Clinical problems in cardiopulmonary disease, new department, coronary disease, left-to-right shunt and congestive heart failure, 526, 605
- Collateral circulation, augmented, murmur as sequel in suppurative lung disease, 504  
systemic and isolated lobular pulmonary artery atresia in tetralogy of Fallot, 512
- College, chapter meetings 58  
news, July pA-29+, 217, 326, 495, Oct p18+, Nov p15, 17, 22, 27  
when is a "college" a college? 241
- Coronary arteriography, ECG changes associated with bypass graft angiography, 87  
selective, fatal thromboembolism after, 1
- Coronary artery, aortic-circumflex saphenous bypass graft angiography, ECG changes with, 87  
aortocoronary artery-vein grafts, total cardiopulmonary support during, 424  
arteriographically normal, transmural myocardial infarction with, 549  
left, origin from pulmonary artery, progressive infarction in, 292
- Coronary care units, percutaneously inserted venous catheters in, 684
- Coronary circulation, augmenting perfusion during internal cardiac massage, 610
- Coronary disease, early diagnosis, positive, tall and peaked T waves in, 24  
left-to-right shunt and congestive heart failure with, 526, 605  
2-0 interval as indicator of left atrial pressure, 553
- Corrosive agents, necrosis of stomach secondary to ingestion of, 48
- Corticotropin, bronchial adenoma with osteoblastic metastases produced by, 491
- Countershock: See Electric countershock
- Critical care medicine, problem oriented record in, 635
- Critical illness, crisis in delivery of care, 616
- Critical review, heart sounds and cardiac pacemakers, 66  
pulmonary angiography in carcinoma of lung, 206  
primary tumors of mediastinum, 297
- Cyanotic heart disease and pulmonary pseudofibrosis, 587
- Cyclophosphamide, alveolitis during procarbazine, vincristine and, 636
- Cytology, in evaluation of pericardial effusions, 593
- Death, sudden, mysteries of, in myocardial infarction, 657  
sudden, mysterious, electrical instability of heart, 454  
sudden, unified concept of pathophysiology of myocardial infarction and, 469
- Delivery of health care to critically ill and injured, crisis in, 616
- Diaphragmatic hernia, Morgagni's, with filial cervical lung hernia, 340
- Diazepam as adjunct to bronchoscopy, 259
- 2,3-Diphosphoglycerate, oxygen transport and, 79S
- Doppler technique in measuring velocity of posterior heart wall, 597
- Echinococcus cyst of heart, roentgen study, 317
- Echocardiogram, illustrative, in atrial septal defect, 213  
illustrative, "pseudo-IHSS" pattern in atrial septal defect, 324
- Echocardiography, foreign body of heart complicated by papillary muscle necrosis located by, 52
- Edema: See Pulmonary edema
- Education, antiquated university, 83  
cardiopulmonary training for physician assistant, 658, 732
- Effusion: See Pericardial effusion
- Eisenmenger syndrome, postinfarction ventricular septal defect and, 224
- Electric countershock, DC, pulmonary

- edema after, 623
- Electrocardiogram of month, isolated electrical alternans of T wave, 319
- recognition of anterior infarction, 91
- ventricular fusion beats simulating bilateral bundle branch block, 743
- Electrocardiography: See also Apexcardiography; Vectorcardiography
- phenothiazine in rabbits effects on, 62
- positive, tall and peaked T waves, significance, 24
- pre-excitation with normal PR intervals in slow Kent bundle conduction, 525, 581
- signs of infarction masked by contralateral hemiblock, 542
- simultaneous endocardial and surface, and temporary transvenous pacemaker, 286
- ST segment depression during exercise, modification by physical conditioning, 678
- Electrolyte balance: See Acid-base equilibrium
- Embolism: See also Pulmonary embolism
- bullet embolus of heart, 627
- improved results with isolated mitral Beall valve replacement, 266
- snare catheter for retrieving embolized fragments of polyethylene tubing, 98
- Embryonal carcinoma, diagnosis by bronchial biopsy, 758
- Emphysema, assessment of ventilation-perfusion ratio inequality in, 191
- 15th Aspen conference, photos, 326
- identification and characteristics of alpha<sub>1</sub>-antitrypsin phenotypes, 557
- mitral valve disease and, 9
- quantitative study of parenchyma and small conductive airways in, 699
- Endocarditis, bacterial, severe tricuspid insufficiency from, 749
- Candida, aortic valve replacement for, 757
- Esophageal stenosis, peptic, surgical treatment, 137
- Esophageal stricture, complication of Jackson bougie during dilation, 452
- Exercise, asthma induced by, plasma catecholamines in, 527
- near-maximal, ST segment depression with, physical conditioning modifies, 678
- tolerance test in assessing risk of pneumonectomy, 570
- Experimental approaches, augmenting coronary perfusion during internal cardiac massage, 610
- CVP as measure of changes in left sided intracardiac pressures, 479
- ECG and ultrastructural cardiac effects of phenothiazine, 62
- serial bronchography after pulmonary autotransplantation, 475
- Expiratory forced flow for determining response to bronchodilator, 534
- Extracorporeal circulation, artificial lung in respiratory insufficiency, 1075
- long-term support with membrane lung, 690
- membrane oxygenator during coronary operations, 424
- Fever, unexplained, in myocardial infarction, 263
- Fibrosarcoma, primary, of heart, 234
- Fibrosis: See Pulmonary fibrosis
- Fistula: See also Shunt
- aorto-right ventricular, and ventricular septal defect after trauma, 343
- bronchobiliary, secondary to amebic liver abscess, 523
- chronic recurrent tracheoesophageal, 222
- esophagopericardial, presenting as cardiac tamponade, 728
- gastropleural, and gastric lymphoma, air-fluid levels in left lower thorax, 621
- systemic artery to pulmonary vessel, 19
- Fluid balance, effect of intrathoracic pressure on, 118S
- Foreign body, migrating, embedded in lung, hemoptysis from, 339
- of heart with papillary muscle necrosis, 52
- Fractures, rib, benign osteolytic lesions with, 330
- Fundoplication for gastroesophageal reflux, 142
- Gastrectomy, total, for necrosis secondary to ingestion of corrosive agents, 48
- Gastroesophageal reflux, fundoplication for, 142
- Ghon complex, adenocarcinoma arising in, massive pericardial effusion in, 520
- Glyceryl trinitrate, oral long-acting, hemodynamic response, 407
- Granular pneumocyte and pulmonary fibrosis, 384, 400
- Granuloma, Histoplasma mediastinal, tracheal obstruction from, 642
- Graphic techniques, apexcardiogram in syndrome of midsystolic click and late systolic murmur, 739
- atrial contribution to left ventricular apexcardiogram, 322
- diagnosis of transient bundle branch block using timed vectorcardiography, 493
- ECG changes associated with coronary bypass graft angiography, 87
- midsystolic carotid pulse wave retraction and prolapsed mitral valve leaflets, 614
- Hamartoma, endobronchial, 631
- Heart: See also Cardiac
- bullet embolus of, 627
- ECG and ultrastructural effects of phenothiazine in rabbits, 62
- electrical instability, mysterious sudden death, 454
- foreign body of, with papillary muscle necrosis, 52
- left sided pressures, CVP as measure of changes in, 479
- surgery, aortocoronary artery-vein graft, total cardiopulmonary support during, 424
- velocity of posterior wall, Doppler technique to measure, 597
- World Heart Day at Smithsonian, 385
- Heart block: See also Bundle branch block
- A-V, in acute myocardial infarction, 156
- bidirectional conduction through A-V junction in sinus rhythm with PVC, 403
- complete, in myocarditis, recovery with pacemaker, 230
- complete, remission of symptoms of mitral stenosis in, 746
- concealed conduction, indication for temporary demand pacing, 220
- ECG signs of infarction masked by contralateral hemiblock, 542
- left anterior fascicular, ECG recognition of anterior infarction in, 91
- phase 3 and 4 intermittent left anterior hemiblock, 655, 673
- priority is Wenckebach, not Mobitz, letter, 239
- second degree A-V Mobitz type I, vagally induced, 152
- slow Kent bundle conduction, pre-excitation with normal PR intervals in, 525, 581
- systolic time intervals with transvenous and fixed rate pacing, 720
- tricuspid valve prosthesis and, epicardial pacing for, 112
- Heart catheterization: See Catheter; Catheterization
- Heart disease, ischemic: See Angina pectoris; Coronary disease; Myocardial infarction
- Heart failure, congestive, coronary disease and left-to-right shunt with, 526, 605
- Heart rate, rapid rate dependent ventricular ectopy, atropine-induced, 255
- Heart sounds, apexcardiogram in syndrome of midsystolic click and late systolic murmur, 739
- in patients with cardiac pacemakers, 66
- Heart valve prosthesis: See also Aortic valve; Mitral valve; Tricuspid valve
- cardiac resuscitation in patients with, 652
- Heart valves, regurgitation, hydrogen and ascorbate dilution curves to detect, 304
- Hemiblock: See Heart block
- Hemodynamics, response of oral long-acting nitrates, 407
- Hemophilia, pulmonary resection in, 342
- Hemoptysis, migrating foreign body embedded in lung causes, 339
- Hemosiderosis, idiopathic, granular pneumocyte and pulmonary fibrosis, 384, 400
- Hernia of Morgagni with filial cervical lung hernia, 340
- Heroin, pulmonary edema of toxicity of, stiff lung syndrome, 199
- Histoplasma mediastinal granuloma causing tracheal obstruction, 642



- History, resuscitation experiments and apparatus of Bell, 311
- Hodgkin's disease, endobronchial, presenting as primary pulmonary lesion, 649
- Honor lecturers, 351
- Hospitals, community, role in respiratory failure management, 105  
respiratory intensive care unit construction, 25
- Hydrogen and ascorbate dilution curves to detect intracardiac shunt and valvular regurgitation, 304
- Hyperalimentation in pulmonary surgery, 577
- Hypercorticosteroidism: See Adrenal hypercorticosteroidism
- Hypersensitivity pneumonitis, due to budgerigars, 170  
serum precipitins in diagnosing, 242, 277
- Hypertension, intramuscular reserpine in, small, increasing doses, 188  
irreversible pulmonary, after correcting tetralogy of Fallot, 34  
pulmonary, persistent after embolism, 665
- Hyperventilation, for chronic obstructive pulmonary disease, arterial CO<sub>2</sub> changes during, 14
- Hypoxia, arterial, in chronic obstructive pulmonary disease, 455
- Infectious mononucleosis, congenital superior vena cava aneurysm and, 755
- Infundibular stenosis, serial cardiac catheterizations in, 333
- Inhalation therapy: See also Respiratory therapy  
ultrasonic mist, alterations in airway dynamics after, 660
- Intensive care units: See Coronary care units; Respiratory intensive care
- Interstitial rheumatoid lung disease, 243
- IPPB, bronchodilator effect of Salbutamol administered by, in asthma, 273
- Isoniazid, review, adverse effects, 71
- Isoproterenol, aerosol, 3 methods of administration compared, 394  
bronchodilator effect of Salbutamol compared in asthma, 273  
expiratory forced flows to determine response to, 534
- Kartagener's syndrome, in 72-year-old woman, 130
- Kent bundle, slow conduction with pre-excitation and normal PR intervals, 525, 581
- Leg elevation, systolic time intervals, relation to atrial contraction and, 720
- Legislation, cardiopulmonary, ACCP invited to comment on, 219
- Lidocaine, quinidine syncope cured by, 764
- Liver, amebic abscess, bronchobiliary fistula secondary to, 523  
herniated tissue, asymptomatic right lower thoracic nodule, 741
- Lung: See also Pulmonary  
abnormal perfusion in bronchial adenoma, 110  
assessment of ventilation-perfusion ratio inequality, 191  
autotransplantation, serial bronchography after, 475  
comparison of <sup>133</sup>xenon and nitrogen washout, 146  
distribution of bronchial arteries in, 447  
filial cervical hernia with hernia of Morgagni, 340  
migrating foreign body embedded in, hemoptysis from, 339  
parenchyma and small conductive airways in chronic nonspecific lung disease, 699  
scan in diagnosis of pulmonary disease, 4  
structure, alpha and omega in, 737  
surgery, hyperalimentation in, 577  
variable perfusion in bronchogenic carcinoma, 517
- Lung, artificial: See Extracorporeal circulation
- Lung biopsy: See Biopsy
- Lung resection: See Pneumonectomy
- Lymphangitic carcinomatosis of lungs, normal chest x-rays in, 229  
roentgen classification, 179
- Lymphoid hyperplasia, benign, mimicking posterior mediastinal tumor, 516
- Lymphoid interstitial pneumonia, 418
- Lymphoma, gastric, with gastropleural fistula, air-fluid levels in left lower thorax, 621
- Manometric findings before and after fundoplication, 142
- Mantoux test, in identifying high risk groups in mental institution, 565
- Marihuana, smoking, pneumomediastinum caused by Valsalva maneuvers during, 233
- Massage: See Cardiac massage
- Mayer, Cecile Lehman, Research Forum, abstracts, 381
- Mediastinal neoplasms, bilateral neurogenic, simultaneous excision, 348  
neurogenic, benign lymphoid hyperplasia mimicking, 516  
primary, 215 cases, 297  
superior, aberrant right subclavian artery aneurysm as cause of, 45
- Mediastinum, displacement, due to traumatic rupture of left main bronchus, 215
- Histoplasma granuloma, tracheal obstruction from, 642
- Medical records, problem oriented, in critical care medicine, 635
- Melanoma, primary, of lung, 629
- Membrane oxygenator: See Extracorporeal circulation
- Mental institution, Mantoux test in identifying high risk groups in, 565
- Metastatic neoplasms, embryonal carcinoma diagnosed by bronchial biopsy, 758  
malignant bronchial carcinoid, 760  
osteoblastic, from ACTH producing bronchial adenoma, 491  
roentgen classification of lymphangitic carcinomatosis of lungs, 179
- Microscopy, light and electron, morphometric studies of oxygen pneumonitis, 162
- Mitral regurgitation, silent, complicating silent infarction, 226
- Mitral stenosis in complete heart block, remission of symptoms, 746
- Mitral valve, disease and emphysema, 9  
disease, pulmonary artery aneurysm with, grave prognosis, 669  
prolapsed leaflets and midsystolic carotid pulse wave retraction, 614
- Mitral valve prosthesis, Beall, isolated, improved results, 266  
pseudoaneurysm of left ventricle after, 115
- Moses, if he could speak, 78
- Mucoepidermoid tumor of trachea, 336
- Mucormycosis, solitary pulmonary nodule due to, 752
- Murmur, sequel to augmented collateral circulation in suppurative lung disease, 504
- Myocardial infarction, acute, A-V block in, 156  
anterior, ECG recognition in left anterior fascicular block, 91  
concealed conduction an indication for temporary demand pacing, 220  
ECG signs masked by contralateral hemiblock, 542  
mysteries of sudden death and, 657  
pathophysiology and sudden death, unified concept, 469  
progressive, in anomaly of coronary and pulmonary arteries, 292  
silent, mitral regurgitation complicating, 226  
transmural, arteriographically normal coronary arteries in, 549  
unexplained fever and chills in, 263  
ventricular septal defect and Eisenmenger syndrome after, 224
- Myocarditis, complete heart block in, recovery with pacemaker, 230
- Myxosarcoma of pulmonary valve, 639
- Neoplasms: See also Adenoma; Bronchial neoplasms; Carcinoma; Cardiac neoplasms; Lymphoma; Mediastinal neoplasms; Metastatic neoplasms; Pulmonary neoplasms; Tracheal neoplasms  
cytology in evaluation of pericardial effusions, 593
- Neurogenic tumor, bilateral mediastinal, simultaneous excision, 348
- Nitrates, oral long-acting, hemodynamic response, gastrointestinal absorption, 407
- Nitrogen, comparison of <sup>133</sup>xenon washout from lungs, 146  
tension, arterial-alveolar, assessment of ventilation-perfusion ratio inequality, 191
- Nursing, in respiratory intensive care unit, 145  
specialized nurses in respiratory care, 195

- Olsen, Arthur M., Festschrift, scientist and his institution, 121  
 introduction, 123  
 photos, 122, 124, 129, 136, 141
- Osteolytic lesions, benign, with rib fractures, 330
- Ostium secundum atrial septal defect, hypertrophic subaortic stenosis with (letter), 240
- Oxygen pneumonitis, morphometric studies, 162
- Oxygen transport and 2,3-diphosphoglycerate, 79S
- Oxygenator, membrane: See Extracorporeal circulation
- Oxyhemoglobin affinity in bronchial asthma, 709
- Pacemaker, bifocal, problems with (letters), 237  
 epicardial, for heart block and tricuspid valve prosthesis, 112  
 heart sounds in patients with, 66  
 potential hazard of 2 functioning, 109  
 recovery from complete heart block in myocarditis with, 230  
 removal of knotted subclavian semi-flating pacing wire, 654  
 temporary demand, concealed conduction an indication for, 220  
 temporary transvenous, simultaneous endocardial and surface ECGs, 286  
 transvenous and fixed rate, systolic time intervals with, 720  
 ventricular demand, inhibition by atrial fixed rate pacemaker, 346
- Papillary muscle, necrosis complicating foreign body of heart, 52
- Paralysis, vocal cord, caused by pulmonary emboli, 508
- Parenteral feeding in pulmonary surgery, 577
- Peptic esophageal stenosis, surgical treatment, 137
- Perfusion: See also Lung  
 coronary, augmenting during internal cardiac massage, 610  
 pulmonary artery, abnormal in bronchial adenoma, 110
- Pericardial effusion, cytology in evaluation of, 593  
 massive, adenocarcinoma arising in Ghon complex with, 520
- Phenothiazine, ECG and ultrastructural cardiac effects of, in rabbits, 62
- Phenotypes, alpha<sub>1</sub>-antitrypsin, identification and characteristics of, 557
- Phonocardiography, midsystolic carotid pulse wave retraction, 614
- Phycomycosis, solitary pulmonary nodule due to, 752
- Physician assistant, cardiopulmonary training program, 658, 732
- Physicians, chest, professional role of, 495  
 chest, profile of, implications of national survey, 383
- Pigeon breeders, clinical survey of, 242, 277
- Pneumocyte, granular, and pulmonary fibrosis, 384, 400
- Pneumography, impedance, chest impedance changes and respiratory volumes compared, 439
- Pneumomediastinum, Valsalva maneuvers during marihuana smoking, causes, 233
- Pneumonectomy, assessing operative risk of, 570  
 evaluation for, 525  
 in hemophiliac, 342  
 prediction of function loss due to, 694
- Pneumonia, desquamative interstitial, granular pneumocyte and pulmonary fibrosis, 384, 400  
 lymphoid interstitial, 418
- Pneumonitis, hypersensitivity, due to budgerigars, 170  
 hypersensitivity, serum percpitins in diagnosing, 242, 277  
 oxygen, morphometric studies, 162
- Pneumopericardium, spontaneous, in acute asthma, 118
- Positive end-expiratory pressure, indications and physiologic considerations, 86S
- Precipitins, serum, in diagnosing hypersensitivity pneumonitis, 242, 277
- Prednisone, lymphoid interstitial pneumonia treated with, 418
- Premature ventricular contraction: See PVC
- President's Panel on Heart Disease, 217
- Pressure, intracardiac, left sided, CVP as measure of changes in, 479  
 intrathoracic, effect on fluid and electrolyte balance, 118S
- Preventive medicine, if Moses could speak, 78
- Procabazine, alveolitis during vincristine, cyclophosphamide and, 636
- Pseudoaneurysm, of left ventricle after mitral valve replacement, 115
- Pulmonary: See also Lung  
 angiography in carcinoma of lung, 206  
 capillaries, 2-0 interval as indicator of left atrial pressure, 553
- Pulmonary artery, abnormal perfusion in bronchial adenoma, 110  
 aneurysm and mitral valve disease, grave prognosis, 669  
 catheter perforation, cardiac tamponade after, 105  
 isolated lobular atresia with systemic collaterals in tetralogy of Fallot, 512  
 left coronary artery originating in, progressive infarction in, 292  
 vs left ventricle as injection site to determine cardiac output, 175
- Pulmonary coin lesion, transient parahilar, multisegmental bronchiectasis presenting as, 499
- Pulmonary diseases, alveolitis during procabazine, vincristine and cyclophosphamide, 636  
 chronic nonspecific, parenchyma and small conductive airways in, 699  
 diffuse, transbronchoscopic lung biopsy for, 125  
 interstitial rheumatoid, 243
- Kartagener's syndrome in 72-year-old woman, 130
- lesions in rheumatoid arthritis, 747  
 lung biopsy in acutely ill, 484
- lung scan in diagnosis, 4  
 suppurative, murmur as sequel of augmented collateral circulation in, 504
- Pulmonary diseases, chronic obstructive: See also Asthma; Bronchitis; Emphysema  
 alterations in airway dynamics after inhalation of ultrasonic mist, 660  
 arterial CO<sub>2</sub> changes during hyperventilation in, 14  
 arterial hypoxia, in, 45S  
 expiratory forced flows to determine response to bronchodilator, 534  
 3 methods of bronchodilator administration compared, 394
- Pulmonary edema, after direct current countershock, 623  
 of heroin toxicity, stiff lung syndrome, 199
- Pulmonary embolism, factors in incorrect diagnosis, 386, 388  
 lung scan in diagnosis, 4  
 persistent pulmonary hypertension after, 665  
 vocal cord paralysis caused by, 508
- Pulmonary fibrosis, granular pneumocyte and, 384, 400  
 pseudofibrosis in cyanotic heart disease, 587
- Pulmonary function, predicting loss due to pneumonectomy, 694
- Pulmonary hypertension: see Hypertension, pulmonary
- Pulmonary neoplasms: See also Carcinoma; Carcinoma, bronchogenic  
 adenocarcinoma arising in Ghon complex, massive pericardial effusion in, 520  
 alveolar soft-part sarcoma, 762  
 bronchial adenoma with osteoblastic metastases, ACTH producing, 491  
 direct extension between pulmonary veins and left atrium, 444  
 endobronchial hamartomas, 631  
 endobronchial Hodgkin's disease presenting as primary lesion, 649  
 lymphangitic carcinomatosis, normal chest x-rays in, 229  
 lymphangitic carcinomatosis, roentgen classification, 179  
 predicting survival after surgery for, 433  
 primary melanoma, 629  
 roentgen manifestations of blastoma, 104
- Pulmonary nodule, asymptomatic, dilemma of (letters), 238  
 solitary, due to phycomycosis, 752
- Pulmonary valve, absence, with atrial septal defect, aortic homograft for, 100  
 myxosarcoma of, 639
- Pulmonary veins, direct extension of cancer to left atrium, 444  
 meandering right, simulating scimitar syndrome, 510  
 varicosity with other congenital abnormalities, 107
- Pulmonary vessels, fistulas to systemic artery, 19
- Pulmonic stenosis, pulmonary pseudofibrosis in cyanotic heart disease

- mimicks TB in, 587  
 serial cardiac catheterizations in, 333  
 PVC, sinus rhythm with, bidirectional conduction through A-V junction in, 403
- Quinidine syncope, lidocaine cures, 764
- Radiography: See Roentgenogram of month; Roentgenography  
 Radioisotope scanning in diagnosis of lung disease, 4  
 Radionuclide,  $^{133}\text{Xe}$ -, prediction of function loss due to pneumonectomy using, 694  
 Radiotherapy, of primary fibrosarcoma of heart, 234  
 Reserpine, intramuscular, in hypertension, small, increasing doses, 188  
 Respiration: See Ventilation  
 Respiratory acid-base equilibrium: See Acid-base equilibrium  
 Respiratory distress, normal chest x-rays in bronchial carcinoma with, 89  
 Respiratory failure, acute, impact of intensive care unit on survival in, 94  
   bronchopulmonary lavage in, 95S  
   community hospital in management of, 10S  
 Respiratory insufficiency, artificial lung in, 107S  
 Respiratory intensive care, chronic airway obstruction, after-crisis care, 58S  
   new book *Intensive and Rehabilitative Respiratory Care*, 211  
   postoperative, 50S  
   specialized nurses and therapists in, 19S  
 Respiratory intensive care units, constructing, 2S  
   impact on survival in respiratory failure, 94  
   nursing in, 14S  
 Respiratory therapy, specialized therapists, 19S  
 Respiratory tract, bronchiectasis after ammonia burns of, 282  
 Respiratory volumes compared to chest impedance during impedance pneumography, 439  
 Resuscitation, cardiac, in patients with prosthetic valves, 652  
   experiments and apparatus of Bell, 311  
 Rheumatoid lung disease, interstitial, 243  
 Rheumatoid nodule, alveolar cell carcinoma with, 625  
   pulmonary, in rheumatoid arthritis, 747  
 Rib fractures, benign osteolytic lesions with, 330  
 Roentgenogram of month, air-fluid levels in left lower thorax, 621  
   asymptomatic right lower thoracic nodule, 741  
   cardiac mass in young woman, 317  
   displacement of mediastinum, 215  
   hypercorticotestosteroidism with pulmonary and bone lesions, 491  
   respiratory distress with normal chest roentgenograms, 89  
 Roentgenography: See also Chest roentgenograms  
   manifestations of pulmonary blastoma, 104
- Salbutamol, bronchodilator effect, in asthma, 273  
 Sarcoma, alveolar soft-part, 762  
 Scientific Assembly, 4th fall, 38th annual meeting, program 350, 352, abstracts, 357  
 Scimitar syndrome, meandering right pulmonary vein simulating, 510  
 Sensitivity training, speaking before seemingly unconscious patient, 2  
 Shock, cardiogenic, intra-aortic phase shift balloon pumping in, 646  
 Shunt: See also Fistula  
   intracardiac, hydrogen and ascorbate dilution curves to detect, 304  
   left-to-right, coronary disease and congestive heart failure with, 526, 605  
 Sinoatrial node, hyporeactive, and second degree A-V block induced by vagal stimulation, 152  
 Sinus rhythm, with PVC, bidirectional conduction through A-V junction in, 403  
 Situs inversus, Kartagener's syndrome in 72-year-old woman, 130  
 Smoking, team approach to cessation, MD, nurse, therapist, 328  
 Spinal cord transection, high, lack of breathlessness during apnea after, 514  
 Staphylococcal endocarditis, severe tricuspid insufficiency from, 749  
 Stereology, histologic, study of parenchyma and small conductive airways in chronic lung disease, 699  
 Stiff lung syndrome, pulmonary edema of heroin toxicity, example of, 199  
 Stomach, necrosis secondary to ingestion of corrosive agents, 48  
 Stomach neoplasms, lymphoma with gastropleural fistula, air-fluid levels in left lower thorax, 621  
 Subaortic stenosis, hypertrophic, with ostium secundum atrial septal defect, letter, 240  
   idiopathic hypertrophic, echocardiographic "pseudo-IHSS" pattern in atrial septal defect, 324  
 Subclavian artery, aneurysm, aberrant right, cause of superior mediastinal tumor, 45  
 Subclavian vein, removal of knotted semi-flating pacing wire, 654  
 Syncope, quinidine, lidocaine cures, 764
- Tachycardia, isolated electrical alternans of T wave, 319  
   recurrent ventricular, excision of aneurysm cures, 505  
 Tamponade, cardiac, catheter perforation of pulmonary artery resulting in, 105  
   cardiac, esophagopericardial fistula presenting as, 728  
 Teleradiology, evolution through bias to reality, 655
- Testis, embryonal carcinoma diagnosed by bronchial biopsy, 758  
 Tetralogy of Fallot, irreversible pulmonary hypertension after correction of, 34  
   isolated lobular pulmonary artery atresia with systemic collaterals in, 512  
 Thoracotomy, epicardial pacing without, 112  
 Thorax: See also Chest  
   asymptomatic right lower nodule due to herniated liver tissue, 741  
   left lower, air-fluid levels, gastropleural fistula and stomach lymphoma, 621  
   pressure in, effect on fluid and electrolyte balance, 118S  
 Thromboembolism, fatal, after selective coronary arteriography, 1  
   intracavitary cardiac, after external cardiac massage, 645  
 Thrombophlebitis of congenital superior vena cava aneurysm and mononucleosis, 755  
 Trachea, lesions causing airway obstruction, physiologic features, 414  
 Tracheal obstruction, Histoplasma mediastinal granuloma causes, 642  
 Tracheal neoplasms, mucoepidermoid tumor, 336  
 Tracheostomy, problems related to cuffs on tubes, 21S  
 Trauma, bullet embolus of heart, 627  
   rupture of left main bronchus due to, displacement of mediastinum from, 215  
   ventricular septal defect with aorto-right ventricular fistula after, 343  
 Traumatic asphyxia, 634  
 Trephine biopsy, percutaneous, of lung, (letters), 239  
 Tricuspid valve, isolated bacterial endocarditis, severe insufficiency from, 749  
   prosthesis, epicardial pacing for heart block in patients with, 112  
 Truncus arteriosus, type I, in adult, 501  
 Trypsin inhibitors: See Alpha<sub>1</sub>-antitrypsin
- Tuberculosis, isoniazid in, review, adverse effects, 71  
 Mantoux test in identifying high risk groups in mental institution, 565  
 pulmonary, and bronchopulmonary sequestration, 331  
 pulmonary pseudofibrosis in cyanotic heart disease mimicking, 587
- Ultrasound: See also Echocardiography  
   determination of left ventricular position for volume angiography, 29  
   Doppler technique in measuring velocity of posterior heart wall, 597  
 Ultrasonic mist, alterations in airway dynamics after inhalation of, 660  
 Unconsciousness, speaking before patient, sensitivity training, 2  
 University, antiquated, 83
- Vagal stimulation, second degree A-V block Mobitz type I induced by, 152

- Valsalva maneuvers, pneumomediastinum during marihuana smoking caused by, 233
- Varicose veins, pulmonary, with other congenital abnormalities, 107
- Vectorcardiography, timed, diagnosis of transient bundle branch block using, 493
- Vena cava, superior, congenital aneurysm, and mononucleosis, 755
- Venous catheters, percutaneous, use in coronary care units, 684
- Ventilation, comparison of  $^{133}\text{Xe}$  and nitrogen washout, 146
- perfusion, assessment of ratio inequality, 191
- Ventricle, aneurysm, recurrent ventricular tachycardia cured by excision of, 505
- ectopy, rapid rate-dependent, atropine-induced, 255
- left apexcardiogram, atrial contribution to, 322
- left, pseudoaneurysm of, after mitral valve replacement, 115
- left, ultrasound to determine position for volume angiography, 29
- left, vs pulmonary artery as injection site to determine cardiac output, 175
- Ventricular contraction, premature: See PVC
- Ventricular fusion beats simulating bilateral bundle branch block, 743
- Ventricular septal defect, postinfarction, and Eisenmenger syndrome, 224
- traumatic, with aorto-right ventricular fistula, 343
- Vincristine, alveolitis during procarbazine, cyclophosphamide and, 636
- Vocal cord, lesions causing airway obstruction, physiologic features, 414
- paralysis associated with pulmonary emboli, 508
- Xenon 133, comparison of nitrogen washout from lungs, 146
- radiospirometry to predict function loss due to pneumonectomy, 694
- variable perfusion of lung in bronchogenic carcinoma measured by, 517
- Wounds and injuries: See Trauma



